

### SAFETY DATA SHEET

SECTION 1: Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier Trade name or designation of the mixture	STEEL-IT 1012B Polyurethane Aerosol – Black
Registration number	-
Synonyms	None.
SDS number	SDS-1012B
Product code	FGAE1012B (14 oz.), FGAE1012C (4.5 oz.), CASE1012B (case of 12 FGAE1012B), CASE1012C (case of 12 FGAE1012C)
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	Paint / Industrial coating (topcoat). Category: Pigmented metallic coating.
Uses advised against	Uses other than the recommended use. Do not spray on an open flame or other ignition source.
1.3. Details of the supplier of the	e safety data sheet
Manufacturer	Stainless Steel Coatings, Inc.
Address	835 Sterling Road, Lancaster MA 01523-2915, USA
Telephone	+1 (978) 365-9828
E-mail	sds@STEEL-IT.com
Supplier	HM Industrieservice GmbH
Address	Großer Sand 3
	76698 Ubstadt-Weiher, Germany
Telephone	+49 7251 44127-0
Fax	+49 7251 44127-29
E-mail	info@hm-industrie.de
Website	www.hm-industrie.de
1.4. Emergency telephone number	CHEMTREC:
	+1-703-527-3887 (International)
General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Austria National Poisons Information Centre	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Belgium National Poisons Control Centre	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Bulgaria National Toxicological Information Centre	+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Croatia Poisons Information Centre	+385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Cyprus Poison Centre	1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Czech Republic National Poisons Information Centre	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons Control Centre	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Estonia National Poisons Information Centre	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
Finland National Poison Information Centre	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
France National Poisons Control Centre	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Greece Poison Information Centre telephone number	(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Hungary National Emergency Phone Number	+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Iceland Poison Centre	(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Latvia Emergency medical aid	113
Latvia Poison and Drug Information Centre	+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Centre (NVIC)	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Centre	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Portugal Poison Centre	800 250 250
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Slovakia National Toxicological Information Centre	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Spain Toxicology Information Service	+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Sweden National Poison Information Centre	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Switzerland Tox Info Suisse	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Ireland National Poisons Information Centre	353 (1) 809 2566 Healthcare Professionals: 24 hours, 7 days a week

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards		
Aerosols	Category 1	H222 - Extremely flammable aerosol. H229 - Pressurized container: May burst if heated.
Health hazards		
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.

Skin sensitisation		Category 1B	H317 - May cause an allergic skin reaction.
Carcinogenicity		Category 1B	H350 - May cause cancer.
Reproductive toxicity (inh	nalation)	Category 2	H361 - Suspected of damaging fertility or the unborn child by inhalation.
Specific target organ toxi exposure	city - single	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Environmental hazards Hazardous to the aquatic long-term aquatic hazard		Category 2	H411 - Toxic to aquatic life with long lasting effects.
2.2. Label elements			
Label according to Regulation (	EC) No. 1272/2008	as amended	
Contains:	Acetone, Benzer	ne, 1-chloro-4-(trifluoromethyl)-, Bu	tanone oxime, Distillates (petroleum),
	hydrotreated ligh	t, Nickel	
Hazard pictograms			
Signal word	Danger		
Hazard statements			
H222	Extremely flamm	able aerosol.	
H229		ainer: May burst if heated.	
H315	Causes skin irrita		
H317		lergic skin reaction.	
H319	Causes serious e		
H336	-	siness or dizziness.	
H350	May cause cance		h, in heletion
H361		maging fertility or the unborn child l life with long lasting effects.	
H411		me with long lasting enects.	
Precautionary statements			
Prevention	011		
P201		structions before use.	amon and other ignition courses. No amolying
P210		mist/vapours/spray.	ames and other ignition sources. No smoking.
P261 P273	Avoid breatining i Avoid release to		
P273 P280		gloves/protective clothing/eye protection	ection/face protection.
	·····	g	
<b>Response</b> P308 + P311	IF exposed or co	ncerned: Call a POISON CENTRE	/doctor.
Storage	Not assigned.		
Disposal	Not assigned.		
-	0	faccional usora	
Supplemental information on the label		ainer. Protect from sunlight and do	not expose to temperatures exceeding 50°C. on a naked flame or any incandescent
2.3. Other hazards	This substance/n	ygen and cause rapid suffocation. nixture contains no components co and toxic (PBT), or very persistent	nsidered to be either persistent, and very bioaccumulative (vPvB) at levels of

0.1% or higher. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight. The mixture does not contain any substances having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

### **SECTION 3: Composition/information on ingredients**

3.2. Mixtures

Chemical name		%		REACH Registration No.	Index No.	Notes
Benzene, 1-chloro-4-(t	rifluoromethyl)-	15 - 25	98-56-6 202-681-1	-	-	
	Classification:		3;H226, Skin Sens. 1 hronic 2;H411	B;H317, Carc. 2;H351, Rep	r. 2;H361,	
Propane		10 - 20	74-98-6 200-827-9	-	601-003-00-5	
	Classification:	Flam. Gas	1A;H220, Press. Ga	s;H280		
Acetone		5 - 15	67-64-1 200-662-2	-	606-001-00-8	#
	Classification:	Flam. Liq.	2;H225, Eye Irrit. 2;H	319, STOT SE 3;H336		
Supple	mental Hazard Statement(s):					
C.I. Pigment black 028	5	5 - 15	68186-91-4 269-053-7	-	-	#
	Classification:	-				
Distillates (petroleum), light	hydrotreated	5 - 15	64742-47-8 265-149-8	-	649-422-00-2	
	Classification:		3;H226, Skin Irrit. 2;H quatic Chronic 2;H41	l315, STOT SE 3;H336, Asμ 1	o. Tox.	
Butane		5 - 10	106-97-8 203-448-7	-	601-004-01-8	
	Classification:	Flam. Gas	; 1A;H220, Press. Ga	s;H280		
Ethylbenzene		< 0,4	100-41-4 202-849-4	-	601-023-00-4	#
	Classification:		2;H225, Acute Tox. 4 sp. Tox. 1;H304, Aqu	l;H332;(ATE: 17,4 mg/l), ST( atic Chronic 3;H412	OT RE	
Nickel		< 0,3	7440-02-0 231-111-4	-	028-002-01-4	
	Classification:	Skin Sens	. 1;H317, Carc. 2;H3	51, STOT RE 1;H372		
Butanone oxime		< 0,2	96-29-7 202-496-6	-	616-014-00-0	
	Classification:	mg/kg bw)	), Skin Irrit. 2;H315, E	ng/kg bw), Acute Tox. 4;H31 ye Dam. 1;H318, Skin Sens. 70, STOT SE 3;H336, STOT	1;H317,	

ATE: Acute toxicity estimate.

Composition comments	The full text for all H-statements is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits.			
SECTION 4: First aid measures				

General information	If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.
4.1. Description of first aid	measures
Inhalation	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion	In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth. Do not induce vomiting without advice from poison control centre. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
4.2. Most important symptoms and effects, both acute and delayed	May cause drowsiness and dizziness. Headache. Fatigue. Nausea, vomiting. Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
SECTION 5: Firefighting r	neasures
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurised container may explode when exposed to heat or flame.
5.1. Extinguishing media Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed such as: Carbon oxides. Chlorine compounds. Fluorine compounds. Fumes of metal oxides.
5.3. Advice for firefighters Special protective equipment for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Special fire fighting procedures	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. Fight fire from protected location or safe distance. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
SECTION 6: Accidental re	elease measures
6.1. Personal precautions, prote	ective equipment and emergency procedures
For non-emergency personnel	Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours/spray. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
For emergency responders	In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours/spray. Emergency personnel need self-contained breathing equipment. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Prevent product from entering drains.
	Pick up undamaged aerosol cans mechanically. Dike leaked material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water. Retain and dispose of contaminated wash water.

Never return spills to original containers for re-use. Put material in suitable, covered, labelled containers. For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

6.4. Reference to other sections

### **SECTION 7: Handling and storage**

7.1. Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded.
	Avoid breathing mist/vapours/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Persons susceptible for allergic reactions should not handle this product. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Mechanical ventilation or local exhaust ventilation may be required. Do not enter storage areas or confined spaces unless adequately ventilated. Use only outdoors or in a well-ventilated area. Oxygen concentration should not fall below 19.5 % at sea level (pO2 = 135 mmHg). Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see section 10 of the SDS).
	TRGS 510 storage class: 2B.
	Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended
	ANNEX 1, PART 1 Categories of dangerous substances Hazard categories in accordance with Regulation (EC) No 1272/2008 - P3a FLAMMABLE AEROSOLS (Lower-tier requirements = 150 (net) tonnes; Upper-tier requirements = 500 (net) tonnes) - E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tonnes; Upper-tier requirements = 500 tonnes)
7.3. Specific end use(s)	Paint / Industrial coating (topcoat). Category: Pigmented metallic coating. Observe industrial sector guidance on best practices.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Occupational exposure limits

Austria. MAK List Components	Туре	Value	
Acetone (CAS 67-64-1)	MAK	1200 mg/m3	
		500 ppm	
	STEL	4800 mg/m3	
		2000 ppm	
Butane (CAS 106-97-8)	Ceiling	3800 mg/m3	
		1600 ppm	
	MAK	1900 mg/m3	
		800 ppm	
Ethylbenzene (CAS 100-41-4)	Ceiling	880 mg/m3	
		200 ppm	
	MAK	440 mg/m3	
		100 ppm	
Propane (CAS 74-98-6)	Ceiling	3600 mg/m3	
		2000 ppm	
	MAK	1800 mg/m3	
		1000 ppm	

# Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	1187 mg/m3	
		492 ppm	
	TWA	594 mg/m3	
		246 ppm	
Butane (CAS 106-97-8)	STEL	2370 mg/m3	
		980 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	551 mg/m3	
		125 ppm	
	TWA	87 mg/m3	
		20 ppm	
Nickel (CAS 7440-02-0)	TWA	1 mg/m3	
Propane (CAS 74-98-6)	TWA	1000 ppm	

### Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	1400 mg/m3	
	TWA	600 mg/m3	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	435 mg/m3	
Nickel (CAS 7440-02-0)	TWA	0,05 mg/m3	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	

# Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	MAC	1210 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	MAC	22 mg/m3	
		10 ppm	
	STEL	1810 mg/m3	
		750 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	MAC	0,2 mg/m3	Total dust.
		0,05 mg/m3	Respirable dust.
Ethylbenzene (CAS 100-41-4)	MAC	442 mg/m3	
		100 ppm	
	STEL	884 mg/m3	
		200 ppm	
Nickel (CAS 7440-02-0)	MAC	0,5 mg/m3	

## Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended Components Type Value

Nickel (CAS 7440-02-0)	TWA	1 mg/m3
Cyprus. OELs. Occupational Exposu Reg., Ann. 1, R.A.A. 268/2001, as am		nemicals at Work (Safety and Health at Work (Chem. Agents)
Components	Туре	Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m3

# Cyprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents) Reg., Ann. 1, R.A.A. 268/2001, as amended)

Components	Туре	Value	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	

# Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	Ceiling	1500 mg/m3	
	TWA	800 mg/m3	
C.I. Pigment black 028 (CAS 68186-91-4)	Ceiling	1,5 mg/m3	Aerosol, inhalable.
	TWA	0,5 mg/m3	Aerosol, inhalable.
Ethylbenzene (CAS 100-41-4)	Ceiling	500 mg/m3	
	TWA	200 mg/m3	
Iron (Massive metal) (CAS 7439-89-6)	TWA	10 mg/m3	
Nickel (CAS 7440-02-0)	Ceiling	1 mg/m3	Aerosol, inhalable.
	TWA	0,5 mg/m3	Aerosol, inhalable.

### Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

Components	Туре	Value Form	
Acetone (CAS 67-64-1)	TLV	600 mg/m3	
		250 ppm	
Butane (CAS 106-97-8)	TLV	1200 mg/m3	
		500 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TLV	0,5 mg/m3	
Ethylbenzene (CAS 100-41-4)	TLV	217 mg/m3	
		50 ppm	
Nickel (CAS 7440-02-0)	TLV	0,05 mg/m3 Dust.	
Propane (CAS 74-98-6)	TLV	1800 mg/m3	
		1000 ppm	

### Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended Components Value

components	туре	value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	TWA	1500 mg/m3	
		800 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

Components	Type	Value Fo	rm
Acetone (CAS 67-64-1)	STEL	1500 mg/m3	
		630 ppm	
	TWA	1200 mg/m3	
		500 ppm	
Acetone (CAS 67-64-1) Butane (CAS 106-97-8) C.I. Pigment black 028 CAS 68186-91-4) Distillates (petroleum), hydrotreated light (CAS 64742-47-8) Ethylbenzene (CAS 100-41-4) Nickel (CAS 7440-02-0) Propane (CAS 74-98-6) Propane (CAS 74-98-6) France. OELs. Indicative Occu Components C.I. Pigment black 028 CAS 68186-91-4) France. OELs. Occupational Efformation of the second	STEL	2400 mg/m3	
		1000 ppm	
	TWA	1900 mg/m3	
		800 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	500 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	880 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
Nickel (CAS 7440-02-0)	TWA	0,01 mg/m3 Re	spirable.
Propane (CAS 74-98-6)	STEL	2000 mg/m3	
. ,		1100 ppm	
	TWA	1500 mg/m3	
		800 ppm	
Components	e Occupational Exposure Limits as Preso Type VME	ribed by Order of 30 June 2004, as Value Fo	
France. OELs. Indicative Components C.I. Pigment black 028 (CAS 68186-91-4)	Туре	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh	<b>rm</b> alable fraction.
Components C.I. Pigment black 028 (CAS 68186-91-4)	Type VME	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re	rm alable fraction. spirable fraction
Components C.I. Pigment black 028 (CAS 68186-91-4)	Туре	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re	rm alable fraction. spirable fraction
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati	Type VME onal Exposure Limits as Prescribed by A	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an	<b>rm</b> alable fraction. spirable fraction
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components	Type VME onal Exposure Limits as Prescribed by A Type	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value	<b>rm</b> alable fraction. spirable fraction
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components	Type VME onal Exposure Limits as Prescribed by A Type	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3	<b>rm</b> alable fraction. spirable fraction
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components	Type VME onal Exposure Limits as Prescribed by A Type VLE	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm	<b>rm</b> alable fraction. spirable fraction
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components	Type VME onal Exposure Limits as Prescribed by A Type VLE	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3	<b>rm</b> alable fraction. spirable fraction
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS	Type VME onal Exposure Limits as Prescribed by A Type VLE VME	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm	<b>rm</b> alable fraction. spirable fraction
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS	Type VME onal Exposure Limits as Prescribed by A Type VLE VME	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 442 mg/m3	<b>rm</b> alable fraction. spirable fraction
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS	Type       VME       onal Exposure Limits as Prescribed by A       Type       VLE       VME       VLE	ribed by Order of 30 June 2004, as Value         Fo           0,2 mg/m3         Inh           0,05 mg/m3         Re           rt. R.4412-149 of Labor Code, as an Value         Yalue           2420 mg/m3         1000 ppm           1210 mg/m3         500 ppm           442 mg/m3         100 ppm	<b>rm</b> alable fraction. spirable fraction
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4)	Type       VME       onal Exposure Limits as Prescribed by A       Type       VLE       VME       VLE	ribed by Order of 30 June 2004, as Value         Fo           0,2 mg/m3         Inh           0,05 mg/m3         Re           rt. R.4412-149 of Labor Code, as an Value         Yalue           2420 mg/m3         1000 ppm           1210 mg/m3         500 ppm           442 mg/m3         100 ppm           88,4 mg/m3         20 ppm	rm alable fraction. spirable fraction nended
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4) France. Threshold Limit	Type         VME         onal Exposure Limits as Prescribed by A         Type         VLE         VME         VLE         VME         VLE         VME         VLE         VME         VLE         VME         VME	ribed by Order of 30 June 2004, as Value         Fo           0,2 mg/m3         Inh           0,05 mg/m3         Re           rt. R.4412-149 of Labor Code, as an Value         Re           2420 mg/m3         1000 ppm           1210 mg/m3         500 ppm           442 mg/m3         100 ppm           20 ppm         20 ppm	rm alable fraction. spirable fraction. nended
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4) France. Threshold Limit Components	Type         VME         Ional Exposure Limits as Prescribed by A         Type         VLE         VME         VLE         VME         VLE         VME         VLE         VME         VME         VME         VME         VME	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm re to Chemicals in France, INRS ED Value	rm alable fraction. spirable fraction nended
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4) France. Threshold Limit Components Acetone (CAS 67-64-1)	Type         VME         onal Exposure Limits as Prescribed by A         Type         VLE         VME         VME         VME         VME         VME         VME         VME	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm re to Chemicals in France, INRS ED Value	rm alable fraction. spirable fraction nended
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4) France. Threshold Limit Components Acetone (CAS 67-64-1)	Type         VME         onal Exposure Limits as Prescribed by A         Type         VLE         VME         VME         VME         VME         VME         VME         VME	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm re to Chemicals in France, INRS ED Value 2420 mg/m3	rm alable fraction. spirable fraction nended
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4) France. Threshold Limit Components Acetone (CAS 67-64-1) Regulatory status:	Type         VME         onal Exposure Limits as Prescribed by A         Type         VLE         VME         VLE         VLE         VLE         VLE         VLE         VLE         Regulatory binding (VRC)	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm re to Chemicals in France, INRS ED Value 2420 mg/m3	rm alable fraction. spirable fraction nended
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4) France. Threshold Limit Components Acetone (CAS 67-64-1) Regulatory status:	Type         VME         onal Exposure Limits as Prescribed by A         Type         VLE         VME         VLE         VME         VLE         VME         VLE         VLE         VLE         VLE         VLE         VLE         VME         VLE         VE         Regulatory binding (VRC)         Regulatory binding (VRC)	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm re to Chemicals in France, INRS ED Value 2420 mg/m3 1000 ppm	rm alable fraction. spirable fraction nended
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4) France. Threshold Limit Components Acetone (CAS 67-64-1) Regulatory status: Regulatory status:	Type         VME         onal Exposure Limits as Prescribed by A         Type         VLE         VME         VLE         Regulatory binding (VRC)         VME	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm re to Chemicals in France, INRS ED Value 2420 mg/m3 1000 ppm	rm alable fraction. spirable fraction nended
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4) France. Threshold Limit Components Acetone (CAS 67-64-1) Regulatory status: Regulatory status:	Type         VME         onal Exposure Limits as Prescribed by A         Type         VLE         VME         VLE         Regulatory binding (VRC)         VME	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm re to Chemicals in France, INRS ED Value 2420 mg/m3 1000 ppm 1210 mg/m3	rm alable fraction. spirable fraction nended
Components C.I. Pigment black 028 (CAS 68186-91-4) France. OELs. Occupati Components Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4) France. Threshold Limit Components Acetone (CAS 67-64-1) Regulatory status: Regulatory status: Regulatory status: Regulatory status:	Type         VME         onal Exposure Limits as Prescribed by A         Type         VLE         VME         VLE         VME         VLE         VME         VLE         VME         VLE         VME         VLE         VME         Regulatory binding (VRC)         VME         Regulatory binding (VRC)         VME         Regulatory binding (VRC)	ribed by Order of 30 June 2004, as Value Fo 0,2 mg/m3 Inh 0,05 mg/m3 Re rt. R.4412-149 of Labor Code, as an Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm re to Chemicals in France, INRS ED Value 2420 mg/m3 1000 ppm 1210 mg/m3	rm alable fraction. spirable fraction. nended

Components	Туре	Value
		800 ppm
Regulatory status:	Indicative limit (VL)	
C.I. Pigment black 028 (CAS 68186-91-4)	VME	2 mg/m3
Regulatory status:	Regulatory indicative (VRI)	
Ethylbenzene (CAS 100-41-4)	VLE	442 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		100 ppm
Regulatory status:	Regulatory binding (VRC)	
	VME	88,4 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		20 ppm
Regulatory status:	Regulatory binding (VRC)	
Nickel (CAS 7440-02-0)	VME	1 mg/m3
Regulatory status:	Indicative limit (VL)	-

#### France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984 Components Type Value

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	TWA	1200 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	TWA	2400 mg/m3	
		1000 ppm	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	5 mg/m3	Respirable aerosol fraction
		350 mg/m3	Vapour.
		50 ppm	Vapour.
Ethylbenzene (CAS 100-41-4)	TWA	88 mg/m3	
		20 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

### Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	AGW	1200 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	AGW	2400 mg/m3	
		1000 ppm	
Butanone oxime (CAS 96-29-7)	AGW	1 mg/m3	
		0,3 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	AGW	2 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	AGW	300 mg/m3	
Ethylbenzene (CAS 100-41-4)	AGW	88 mg/m3	
		20 ppm	
Nickel (CAS 7440-02-0)	AGW	0,03 mg/m3	Inhalable fraction.
		0,006 mg/m3	Respirable fraction.
Propane (CAS 74-98-6)	AGW	1800 mg/m3	
		1000 ppm	

### Greece. OELs, Presidential Decree No. 307/1986, as amended

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	3560 mg/m3	
	TWA	1780 mg/m3	
Butane (CAS 106-97-8)	TWA	2350 mg/m3	
		1000 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0,5 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

### Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended Components

Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
Butane (CAS 106-97-8)	STEL	9400 mg/m3	
	TWA	2350 mg/m3	
C.I. Pigment black 028 (CAS 68186-91-4)	STEL	2 mg/m3	
	TWA	0,1 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	442 mg/m3	

### Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	TWA	600 mg/m3	
		250 ppm	
Butane (CAS 106-97-8)	TWA	1200 mg/m3	
		500 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	STEL	5 mg/m3	Total dust.
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	200 mg/m3	
		50 ppm	
Nickel (CAS 7440-02-0)	TWA	0,05 mg/m3	Dust.
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

### Ireland. OELVs, Schedules 1 & 2, Code of Practise for Chemical Agents and Carcinogens Regulations

Components	гуре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
Butanone oxime (CAS 96-29-7)	STEL	33 mg/m3	
		10 ppm	
	TWA	10 mg/m3	
		3 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	2 mg/m3	

Components	Туре	Value	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	
Italy. OELs Components	Туре	Value	Form
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0,5 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
	TWA	1,5 mg/m3	Inhalable fraction.

### Ireland. OELVs, Schedules 1 & 2, Code of Practise for Chemical Agents and Carcinogens Regulations

#### cupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex atvia. UELS. ( 1), as amended

Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	STEL	300 mg/m3	
	TWA	300 mg/m3	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Nickel (CAS 7440-02-0)	TWA	0,05 mg/m3	
Propane (CAS 74-98-6)	STEL	300 mg/m3	
	TWA	100 mg/m3	

### Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	2420 mg/m3	
		1000 ppm	
	TWA	1210 mg/m3	
		500 ppm	
Benzene, 1-chloro-4-(trifluoromethyl)- (CAS 98-56-6)	TWA	20 mg/m3	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	2 mg/m3	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	STEL	500 mg/m3	
	TWA	350 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	

#### Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007) Components Type Value

components	Туре	Value	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	

# Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended

Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	

### Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	

### Netherlands. OELs per Annex XIII of Working Conditions Regulation (Government Gazette no. 252, 29 December 2006), as amended

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	2420 mg/m3	
	TWA	1210 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	430 mg/m3	
	TWA	215 mg/m3	

# Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Туре	Value	
Acetone (CAS 67-64-1)	TLV	295 mg/m3	
		125 ppm	
Butane (CAS 106-97-8)	TLV	600 mg/m3	
		250 ppm	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TLV	275 mg/m3	
		40 ppm	
Ethylbenzene (CAS 100-41-4)	TLV	20 mg/m3	
		5 ppm	
Nickel (CAS 7440-02-0)	TLV	0,05 mg/m3	
Propane (CAS 74-98-6)	TLV	900 mg/m3	
		500 ppm	

# Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	1800 mg/m3	
	TWA	600 mg/m3	
Butane (CAS 106-97-8)	STEL	3000 mg/m3	
	TWA	1900 mg/m3	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0,5 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	400 mg/m3	
	TWA	200 mg/m3	
Nickel (CAS 7440-02-0)	TWA	0,25 mg/m3	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	

#### Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended

Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	

#### Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014) Components Value

Туре	Value	Form
STEL	750 ppm	
TWA	500 ppm	
STEL	1000 ppm	
TWA	1000 ppm	
TWA	0,1 mg/m3	Inhalable fraction.
	0,02 mg/m3	Respirable fraction.
TWA	20 ppm	
TWA	1,5 mg/m3	Inhalable fraction.
TWA	2500 ppm	
	Type STEL TWA STEL TWA TWA TWA	TypeValueSTEL750 ppmTWA500 ppmSTEL1000 ppmTWA1000 ppmTWA0,1 mg/m3O,02 mg/m3TWA20 ppmTWA1,5 mg/m3

### Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

amended)	Tune	Value	
Components	Туре	value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	STEL	1500 mg/m3	
	TWA	1200 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Nickel (CAS 7440-02-0)	STEL	0,5 mg/m3	
	TWA	0,1 mg/m3	
Propane (CAS 74-98-6)	STEL	1800 mg/m3	
		1000 ppm	
	TWA	1400 mg/m3	
		778 ppm	

amended Components	Туре	Value	Form
	-		
Butane (CAS 106-97-8)	TWA	2400 mg/m3	
		1000 ppm	
Nickel (CAS 7440-02-0)	TWA	0,05 mg/m3	Inhalable fraction.
Slovakia. OELs. Decree of the go agents	vernment of the Slovak Repub	blic concerning protection of h	ealth in work with chemica
Components	Туре	Value	Form
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0,2 mg/m3	Inhalable fraction.
		0,05 mg/m3	Respirable fraction.
Ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
Iron (Massive metal) (CAS 7439-89-6)	TWA	6 mg/m3	
Slovakia. OELs. Maximum permis Annex 1, Table 1, as amended)	sible exposure limits for cher	nical factors in workplace air (	Regulation No 355/2006,
Components	Туре	Value	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
Slovenia. OELs. Occupational Ex due to Exp. to Chemicals at Work			on of Workers from Risks
Components	Туре	Value	Form
Acetone (CAS 67-64-1)	KTV	2420 mg/m3	

Acelone (CAS 67-64-1)	<b>NIV</b>	2420 mg/m3		
		1000 ppm		
Butane (CAS 106-97-8)	KTV	9600 mg/m3		
		4000 ppm		
Butanone oxime (CAS 96-29-7)	KTV	8 mg/m3		
		2,4 ppm		
Ethylbenzene (CAS 100-41-4)	KTV	884 mg/m3		
		200 ppm		
Nickel (CAS 7440-02-0)	KTV	0,048 mg/m3	Respirable fraction.	
Propane (CAS 74-98-6)	KTV	7200 mg/m3		
		4000 ppm		

# Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	TWA	2400 mg/m3	
		1000 ppm	
Butanone oxime (CAS 96-29-7)	TWA	1 mg/m3	
		0,3 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	2 mg/m3	Inhalable fraction.
		0,2 mg/m3	Inhalable fraction.
		0,05 mg/m3	Respirable fraction.

## Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Туре	Value	Form
Ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
Nickel (CAS 7440-02-0)	TWA	0,006 mg/m3	Respirable fraction.
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

## Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	TWA	1000 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	441 mg/m3	
		100 ppm	
Nickel (CAS 7440-02-0)	TWA	1 mg/m3	
Propane (CAS 74-98-6)	TWA	1000 ppm	

### Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	1200 mg/m3	
		500 ppm	
	TWA	600 mg/m3	
		250 ppm	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	STEL	500 mg/m3	
	TWA	350 mg/m3	
Ethylbenzene (CAS 100-41-4)	Ceiling	884 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	Total dust.
Switzerland. SUVA Grenzwerte am	Arbeitsplatz: Aktuelle MAK-Werte		
Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	2400 mg/m3	
		1000 ppm	
	TWA	1200 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	STEL	7600 mg/m3	
		3200 ppm	
	TWA	1900 mg/m3	
		800 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0,5 mg/m3	Inhalable fraction.

### Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	STEL	700 mg/m3	Vapour.
		100 ppm	Vapour.
	TWA	5 mg/m3	Aerosol
		350 mg/m3	Vapour.
		50 ppm	Vapour.
Ethylbenzene (CAS 100-41-4)	STEL	220 mg/m3	
		50 ppm	
	TWA	220 mg/m3	
		50 ppm	
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	Inhalable fraction.
Propane (CAS 74-98-6)	STEL	7200 mg/m3	
		4000 ppm	
	TWA	1800 mg/m3	
		1000 ppm	

### UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

20 mg/m3 00 ppm 10 mg/m3 0 ppm
10 mg/m3 0 ppm
0 ppm
10 mg/m3
0 ppm
50 mg/m3
0 ppm
5 mg/m3
2 mg/m3
5 ppm
1 mg/m3
0 ppm
5 mg/m3

#### EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Components Value

Components	туре	value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	

#### **Biological limit values**

Croatia. BELs (BGV). Regulation on Protect	ion of Workers against Ex	cposure to Dangerous	S Chemicals at Work, OELs and
BELs, Annex IV (NN 91/2018), as amended			

Compone	ents	Value	Determinant	Specimen	Sampling Time
Acetone (	CAS 67-64-1)	20 mg/g	Acetone	Creatinine in urine	*

# Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs, Annex IV (NN 91/2018), as amended

Components	Value	Determinant	Specimen	Sampling Time
	20 mg/l	Acetone	Blood	*
	0,34 mmol/l	Acetone	Blood	*
	39 mmol/mol	Acetone	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	1,5 g/g	Mandelic acid	Creatinine in urine	*
	1,5 mg/l	ethylbenzene	Blood	*
	1,12 mol/mol	Mandelic acid	Creatinine in urine	*
	14,1 umol/l	ethylbenzene	Blood	*

\* - For sampling details, please see the source document.

### Czech Republic. BELs. Government Decree 432/2003 Sb., as amended

Components	Value	Determinant	Specimen	Sampling Time	
Ethylbenzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*	
	1500 mg/g	Mandelic acid	Creatinine in urine	*	
Nickel (CAS 7440-02-0)	0,077 µmol/mmol	Nickel	Creatinine in urine	*	
	0,04 mg/g	Nickel	Creatinine in urine	*	

\* - For sampling details, please see the source document.

#### Finland. HTP-arvot, App 2., Biological Limit Values, Social Affairs and Ministry of Health

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	Urine	*
Nickel (CAS 7440-02-0)	0,1 umol/l	Nickel	Urine	*
* Ean agus aling dataile al		une e se t		

\* - For sampling details, please see the source document.

### France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS), ND 2065)

Components	Value	Determinant	Specimen	Sampling Time		
Acetone (CAS 67-64-1)	100 mg/l	Acétone	Urine	*		
Ethylbenzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*		
* English defails along the second decomposit						

\* - For sampling details, please see the source document.

#### Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	80 mg/l	ACETON	Urine	*
Ethylbenzene (CAS 100-41-4)	250 mg/g	Mandelsäure plus Phenylglyoxyls äure	Creatinine in urine	*

\* - For sampling details, please see the source document.

# Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amendedComponentsValueDeterminantSpecimenSampling Time

•			•	• •
Acetone (CAS 67-64-1)	1380 µmol/l	Acetone	Urine	*
	80 mg/l	Acetone	Urine	*
C.I. Pigment black 028 (CAS 68186-91-4)	0,022 µmol/mmol	chromium	Creatinine in urine	*
	0,01 mg/g	chromium	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	1110 µmol/mmol	mandelic acid	Creatinine in urine	*
	1500 mg/g	mandelic acid	Creatinine in urine	*

# Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended Components Value Determinant Specimen Sampling Time Nickel (CAS 7440-02-0) 0.051 µmol/l Nickel Liripe \*

	0,001 μποι/	NICKEI	Offile				
	0,003 mg/l	Nickel	Urine	*			
* - For sampling details, please see the source document							

\* - For sampling details, please see the source document.

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	53,36 mg/g	Acetone	Creatinine in urine	*	
	80 mg/l	Acetone	Urine	*	
Ethylbenzene (CAS 100-41-4)	8,03 mg/g	2 and 4-ethylphenol	Creatinine in urine	*	
	12 mg/l	2 and 4-ethylphenol	Urine	*	

\* - For sampling details, please see the source document.

### Spain. BELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 3-Valores Límite Biológicos (VLB)ComponentsValueDeterminantSpecimenSampling Time

				······································	
Acetone (CAS 67-64-1)	50 mg/l	Acetona	Urine	*	
Ethylbenzene (CAS 100-41-4)	700 mg/g	Suma del acido mandélico y el ácido fenilglioxílico	Creatinine in urine	*	
· · · · · · ·					

\* - For sampling details, please see the source document.

#### Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	80 mg/l	ACETON	Urine	*
Ethylbenzene (CAS 100-41-4)	600 mg/g	Mandelsäure + Phenylglyoxyls äure	Creatinine in urine	*
Nickel (CAS 7440-02-0)	45 µg/l	Nickel	Urine	*
* - For sampling details, ple	ease see the source do	cument.		
Recommended monitoring procedures	Follow standard m	nonitoring procedures	i.	
Derived no effect levels (DNELs)	Not available.			
Predicted no effect concentrations (PNECs)	Not available.			
Exposure guidelines				
Germany DFG MAK (adv	isory): Skin designatio	on		
Butanone oxime (CAS Germany TRGS 900 Limi	,		absorbed throug	yh the skin.
Butanone oxime (CAS Lithuania OELs: Skin des		Can be	absorbed throug	gh the skin.
Benzene, 1-chloro-4-( Slovakia OELs for Carcir	trifluoromethyl)- (CAS 9 10gens and Mutagens		absorbed throug	Jh the skin.
Nickel (CAS 7440-02-	0)	Can be	absorbed throug	jh the skin.
Slovenia. OELs. Regulati (Official Gazette of the R		ction of workers ag	ainst risks due t	to exposure to chemicals while working
Butanone oxime (CAS UK EH40 WEL: Skin desi	,	Can be	absorbed throug	yh the skin.
Nickel (CAS 7440-02-	0)	Can be	absorbed throug	gh the skin.
8.2. Exposure controls				
Appropriate engineering controls Explosion-proof general and local exhaust ventilation. Good general ventilation should be use Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommen exposure limits. Provide easy access to water supply and eye wash facilities.				blicable, use process enclosures, local ntain airborne levels below recommended

### Individual protection measures, such as personal protective equipment

individual protection measure	es, such as personal protective equipment
General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed. Eye protection should meet standard EN 166.
Skin protection	
- Hand protection	Wear suitable gloves tested to EN374. Glove material: Nitrile. Use gloves with breakthrough time of 15 +/- 15 minutes. Minimum glove thickness 0.381 (15 mil) mm. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear respiratory protection with combination filter (dust and gas filter) during spraying operations. Use filter type (ABEK2/P3) according to EN 143. Check with respiratory protective equipment suppliers.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Aerosol - Pressurized liquid (spray).
Colour	Black.
Odour	Characteristic of solvents.
Odour threshold	Property has not been measured.
Melting point/freezing point	> -29 °C (> -20,2 °F)
Boiling point or initial boiling point and boiling range	> 56 °C (> 132,8 °F)
Flammability	Extremely flammable aerosol.
Upper/lower flammability or exp	losive limits
Explosive limit - lower ( %)	0,6 %
Explosive limit – upper (%)	12,8 %
Flash point	Not applicable, product is an aerosol dispenser.
Auto-ignition temperature	> 236 °C (> 456,8 °F) (liquid)
Decomposition temperature	253,8 °C (488,8 °F) (liquid)
рН	Not applicable (material is insoluble in water).
Kinematic viscosity	2700 mm²/s (25 °C (77 °F))
Solubility	
Solubility (water)	(< 0,1%) Insoluble in water.
Partition coefficient (n-octanol/water) (log value)	Not applicable, product is a mixture.
Vapour pressure	70 psi (20 °C (68 °F))
Density and/or relative density	
Density	0,849 g/cm³ (25 °C (77 °F))
Relative density	0,849 (Water=1) (25 °C (77 °F))
Vapour density	9,6 (Air=1) (25 °C (77 °F))
Particle characteristics	
Particle size	Does not contain nanomaterials.

#### 9.2. Other information

### 9.2.1. Information with regard No relevan to physical hazard classes

No relevant additional information available.

#### 9.2.2. Other safety characteristics

Evaporation rate	Property has not been measured.
Viscosity	Property has not been measured.
VOC	MIR CA < 1,25

### **SECTION 10: Stability and reactivity**

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability	Material is stable under normal conditions.		
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.		
10.4. Conditions to avoid	Contents under pressure. Do not puncture. Protect against direct sunlight. Avoid heat, sparks, open flames and other ignition sources. In a fire or if heated, a pressure increase will occur and the container may burst or explode. Contact with incompatible materials.		
10.5. Incompatible materials	Strong oxidising agents. Strong acids. Halogens. Chlorine.		
10.6. Hazardous decomposition products	Thermal decomposition of this product can generate carbon monoxide and carbon dioxide. Fumes of metal oxides. Chlorine compounds. Fluorine compounds.		

### **SECTION 11: Toxicological information**

General information Occupational exposure to the substance or mixture may cause adverse effects.

#### Information on likely routes of exposure

Inhalation	Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. May cause drowsiness or dizziness. Prolonged inhalation may be harmful.			
Skin contact	Causes skin irritation. May cause an allergic skin reaction. May be absorbed through the skin.			
Eye contact	Causes serious eye irritation.			
Ingestion	May cause discomfort if swallowed.			
Symptoms	May cause drowsiness or dizziness. Headache. Fatigue. Nausea, vomiting. Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.			

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Not expected to be acutely toxic.		
components Species		Test Results	
Acetone (CAS 67-64-1)			
Acute			
Dermal			
LD50	Rabbit	> 15700 mg/kg, 24 Hours	
Inhalation			
Vapour			
LC50	Rat	76 mg/l, 4 Hours	
Oral			
LD50	Rat	5800 mg/kg	
Butane (CAS 106-97-8)			
<u>Acute</u>			
Inhalation			
LC50	Rat	658 mg/l, 4 Hours	
Butanone oxime (CAS 96-2	29-7)		
Acute			
Dermal			
LD50	Rabbit	> 1000 mg/kg, 24 Hours	
Oral			
LD50	Rat	> 900 mg/kg	

Components	Species		Test Results	
Ethylbenzene (CAS 100-41-4)				
Acute				
Dermal	D 11.1		45.400	
LD50	Rabbit		15400 mg/kg	
Inhalation	Det			
LC50	Rat		17,4 mg/l, 4 hours	
<b>Oral</b> LD50	Rat		3500 - 4700 mg/kg	
	Nal		5500 - 47 00 mg/kg	
Propane (CAS 74-98-6) <u>Acute</u>				
Inhalation				
Gas				
LC50	Rat		> 80000 ppm, 15 Minutes	
Skin corrosion/irritation	Causes ski	n irritation.		
Serious eye damage/eye	Causes se	rious eye irritation.		
irritation				
Respiratory sensitisation	Based on a	vailable data, the classif	ication criteria are not met.	
Skin sensitisation	May cause	an allergic skin reaction		
Germ cell mutagenicity	Based on a	vailable data, the classif	ication criteria are not met.	
Carcinogenicity	May cause	cancer.		
Hungary. 26/2000 EüM Ord (as amended)	inance on pro	otection against and pr	eventing risk relating to exposure to carcinogens at work	
Butanone oxime (CAS 9	6-29-7)			
IARC Monographs. Overall		f Carcinogenicity		
	Benzene, 1-chloro-4-(trifluoromethyl)- (CAS 98-56-6)2B Possibly carcinogenic to humans.C.I. Pigment black 028 (CAS 68186-91-4)3 Not classifiable as to carcinogenicity to humans.			
	ns concerning	g protection of workers	Possibly carcinogenic to humans. against risks due to exposure to chemicals while working	
Butanone oxime (CAS 9 Nickel (CAS 7440-02-0)	6-29-7)		cinogenic, Category 2. cinogenic, Category 2.	
Reproductive toxicity	Suspected	of damaging fertility or th	ne unborn child by inhalation.	
Specific target organ toxicity - single exposure	May cause	May cause drowsiness or dizziness.		
Specific target organ toxicity - repeated exposure	Based on a	Based on available data, the classification criteria are not met.		
Aspiration hazard	Based on a	vailable data, the classif	ication criteria are not met.	
Mixture versus substance information	No informa	tion available.		
11.2. Information on other haza	rds			
Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.			
Other information	Symptoms may be delayed.			
SECTION 12: Ecological i	informatior	n		
12.1. Toxicity	Toxic to aquatic life with long lasting effects.		g effects.	
Components		Species	Test Results	
Acetone (CAS 67-64-1)				
Aquatic				
Acute				
Crustacea	LC50	Daphnia pulex	8800 mg/l, 48 Hours	
Fish	LC50	Pimephales promela	as 7163 mg/l, 96 Hours	

NOEC

Daphnia magna

Chronic

Crustacea

> 79 mg/l, 21 days

Components		Species		Test Results
Distillates (petroleum), hydrotreate	d light (CAS 64	742-47-8)		
Aquatic				
Acute				
Fish	LC50	Rainbow trout,do (Oncorhynchus i		2,9 mg/l, 96 hours
Ethylbenzene (CAS 100-41-4)				
Aquatic				
Acute				
Crustacea	EC50	Water flea (Dapl	nnia magna)	1,81 - 2,38 mg/l, 48 hours
Fish	LC50	Rainbow trout,do (Oncorhynchus i		4,2 mg/l, 96 hours
Chronic				
Crustacea	EC50	Ceriodaphnia du	ıbia	3,6 mg/l, 7 days
Nickel (CAS 7440-02-0)				
Aquatic				
Acute				
Crustacea	EC50	Water flea (Dapl	nnia magna)	1 mg/l, 48 hours
	LC50	Calanoid copepo	od (Eurytemora affinis)	>= 7,35 - <= 12,12 mg/l, 96 hours
12.2. Persistence and degradability	No data is available on the degradability of this product.			
12.3. Bioaccumulative potential				
Partition coefficient n-octanol/water (log Kow)	Not applicable, product is a mixture.			
Acetone (CAS 67-64-1) Benzene, 1-chloro-4-(trifluoro Butane (CAS 106-97-8)	trifluoromethyl)- (CAS 98-56-6)		-0,24 3,6 2,89	
Ethylbenzene (CAS 100-41-4)	)		3,15	
Bioconcentration factor (BCF)	Not available			
12.4. Mobility in soil	The product i	s insoluble in wate	r. Not expected to be mo	bbile in soil.
12.5. Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
12.6. Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.			
12.7. Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.			
12.8. Additional information				
Estonia Dangerous substan	ces in soil Dat	ta		
Nickel (CAS 7440-02-0)	Nickel (Ni) 150 mg/kg Nickel (Ni) 50 mg/kg Nickel (Ni) 500 mg/kg			

### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods	
Residual waste	Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. 08 01 11*
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

### **SECTION 14: Transport information**

ADR UN1950 14.1. UN number 14.2. UN proper shipping AEROSOLS, flammable name 14.3. Transport hazard class(es) Class 2 Subsidiary risk -2.1 Label(s) Hazard No. (ADR) Tunnel restriction code D 14.4. Packing group 14.5. Environmental hazards Yes 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user RID 14.1. UN number UN1950 14.2. UN proper shipping AEROSOLS, flammable name 14.3. Transport hazard class(es) 2 Class Subsidiary risk -2.1 Label(s) 14.4. Packing group 14.5. Environmental hazards Yes Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user ADN UN1950 14.1. UN number 14.2. UN proper shipping AEROSOLS, flammable name 14.3. Transport hazard class(es) Class 2.1 Subsidiary risk -Label(s) 2.1 14.4. Packing group -14.5. Environmental hazards Yes 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user ΙΑΤΑ UN1950 14.1. UN number 14.2. UN proper shipping Aerosols, flammable name 14.3. Transport hazard class(es) Class 2.1 Subsidiary risk Label(s) 2.1 14.4. Packing group 14.5. Environmental hazards Yes 101 **ERG Code** Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user IMDG 14.1. UN number UN1950 AEROSOLS, flammable 14.2. UN proper shipping name 14.3. Transport hazard class(es) 2 Class Subsidiary risk -14.4. Packing group 14.5. Environmental hazards Marine pollutant Yes EmS F-D. S-U

Read safety instructions, SDS and emergency procedures before handling.

14.6. Special precautions

for user

### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Acetone (CAS 67-64-1)

Nickel (CAS 7440-02-0)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

#### **Restrictions on use**

#### Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered Acetone (CAS 67-64-1) 40

3

Acetone (CAS 67-64-1) Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Butanone oxime (CAS 96-29-7)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Butanone oxime (CAS 96-29-7)

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Acetone (CAS 67-64-1)

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see

ACETONE

https://ec.europa.eu/home-affairs/sites/homeaffairs/files/what-we-do/policies/crisis-and-terrorism/explosives/explosives-precursors/do cs/list\_of\_competent\_authorities\_and\_national\_contact\_points\_en.pdf.

Other EU regulations	Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended		
	ANNEX 1, PART 1 Categories of dangerous substances Hazard categories in accordance with Regulation (EC) No 1272/2008 - P3a FLAMMABLE AEROSOLS - E2 Hazardous to the Aquatic Environment Chronic		
Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.		
National regulations	According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.		
	Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC, as amended.		

Contains a substance which is included on the TRGS 907 Nickel (CAS 7440-02-0)		7 list of registry of sensitizing substances Nickelverbindungen, Wasserlösliche insbesondere Ni-sulfat und Ni-dichlorid	
France regulations			
France INRS Table of Occup	pational Diseases		
Acetone (CAS 67-64-1)		Affections engendrées par les solvants organiques liquides à usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)		Affections engendrées par les solvants organiques liquides à usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84	
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.		
SECTION 16: Other inform	nation		
List of abbreviations			
		I limit value (Arbeitsplatzgrenzwert – Germany). concerning the International Carriage of Dangerous Goods by Inland	
	EC50: Effective Concentration IATA: International Air Transp		
	IMO: International Maritime O KTV: Short term exposure lim LC50: Lethal Concentration 5	rganization. it	
	LD50: Lethal Dose 50%.	070.	
	MAC: Maximum Allowed Con		
	PBT: Persistent, bioaccumulative, toxic. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short-Term Exposure Limit.		
	TLV: Threshold Limit Value. TWA : Time Weighed Average VLE: Exposure Limit Value. VME: Exposure Average Valu		
	vPvB: very Persistent, very Bi		
References	ECHA: European Chemical A EPA: AQUIRE database HSDB® - Hazardous Substan IARC Monographs. Overall Ev	ices Data Bank valuation of Carcinogenicity	
	National Toxicology Program NLM: Hazardous Substances	(NTP) Report on Carcinogens Data Base	
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.		
Full text of any statements, which are not written out in full under sections 2 to 15			
	<ul> <li>H220 Extremely flammable ga</li> <li>H225 Highly flammable liquid</li> <li>H226 Flammable liquid and va</li> <li>H280 Contains gas under pre</li> <li>H301 Toxic if swallowed.</li> <li>H304 May be fatal if swallowed</li> <li>H312 Harmful in contact with</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic s</li> <li>H318 Causes serious eye dar</li> <li>H319 Causes serious eye dar</li> <li>H319 Causes serious eye irrit</li> <li>H332 Harmful if inhaled.</li> <li>H336 May cause drowsiness</li> <li>H350 May cause cancer.</li> <li>H351 Suspected of causing c</li> <li>H361 Suspected of damaging</li> <li>H370 Causes damage to orga</li> </ul>	and vapour. apour. ssure; may explode if heated. ed and enters airways. skin. kin reaction. mage. tation. or dizziness. ancer. fertility or the unborn child.	
STEEL-IT 1012B Polyurethane Aeroso		SDS EU	

Training information Disclaimer

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Follow training instructions when handling this material.

Stainless Steel Coatings, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.