

# SAFETY DATA SHEET

Version #: 01 Issue date: 23-September-2023 Revision date: -Supersedes date: -

<b>SECTION 1: Identification</b>	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Trade name or designation of the mixture	STEEL-IT 1006B Polyurethane Aerosol – Charcoal
Registration number	-
Synonyms	None.
Product code	FGAE1006B (14 oz.), FGAE1006C (4.5 oz.), CASE1006B (case of 12 FGAE1006B), CASE1006C (case of 12 FGAE1006C)
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 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
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	alation)	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 3	H412 - Harmful to aquatic life with long lasting effects.		
2.2. Label elements					
Label according to Regulation (	EC) No. 1272/2008	as amended			
Contains:		ne, 1-chloro-4-(trifluoromethyl)-, Butanone ox t, Nickel, n-Butyl acetate	xime, Distillates (petroleum),		
Hazard pictograms					
Signal word	Danger	•			
Hazard statements	C C				
H222	Extremely flamm	able aerosol.			
H229		ainer: May burst if heated.			
H315	Causes skin irrita				
H319	Causes serious e	•			
H336		siness or dizziness. maging fertility or the unborn child by inhalat	tion		
H361 H317					
H350		May cause an allergic skin reaction. May cause cancer.			
H412	Harmful to aquat	ic life with long lasting effects.			
Precautionary statements					
Prevention					
P201	Obtain special in	structions before use.			
P210		heat, hot surfaces, sparks, open flames and	d other ignition sources. No smoking.		
P261	•	mist/vapours/spray.			
P273 P280		the environment. gloves/protective clothing/eye protection/fac	e protection		
Response	IE overaged or as	ncerned: Call a POISON CENTRE/doctor.			
P308 + P311	-	incerned. Call a POISON CENTRE/doctor.			
Storage	Not assigned.				
Disposal	Not assigned.	<b>z</b>			
Supplemental information on the label		fessional users. ainer. Protect from sunlight and do not expo burn, even after use. Do not spray on a nak			
2.3. Other hazards	This substance/r bioaccumulative 0.1% or higher. The mixture does REACH Article 5 greater than 0.19 The mixture does accordance with Commission Reg	s not contain any substances having endocr the criteria set out in Commission Delegate gulation (EU) 2018/605 at a concentration ec	bioaccumulative (vPvB) at levels of list established in accordance with ies at a concentration equal to or ine disrupting properties in d Regulation (EU) 2017/2100 or		
SECTION 3: Composition	/information or	n ingredients			

# 3.2. Mixtures

#### **General information Chemical name** CAS-No. / EC No. REACH Registration No. Ind<u>ex No.</u> % Notes Acetone 15 - 25 67-64-1 606-001-00-8 # -200-662-2 Classification: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336 Supplemental Hazard EUH066 Statement(s): SDS EU STEEL-IT 1006B Polyurethane Aerosol – Charcoal

Chemical name		%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Propane		10 - 20	74-98-6 200-827-9	-	601-003-00-5	
	Classification:	Flam. Gas	1A;H220, Press. Ga	s;H280		
Benzene, 1-chloro-4-(	(trifluoromethyl)-	5 - 15	98-56-6 202-681-1	-	-	
	Classification:		3;H226, Skin Sens. 1 hronic 2;H411	B;H317, Carc. 2;H351, Rep	or. 2;H361,	
Distillates (petroleum) light	), hydrotreated	5 - 15	64742-47-8 265-149-8	-	649-422-00-2	
	Classification:		3;H226, Skin Irrit. 2;F quatic Chronic 2;H41	1315, STOT SE 3;H336, Asj 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		
n-Butyl acetate		2 - 7	123-86-4 204-658-1	-	607-025-00-1	#
	Classification:	Flam. Liq.	3;H226, STOT SE 3;	H336		
Supple	emental Hazard Statement(s):					
C.I. Pigment black 02	8	< 4	68186-91-4 269-053-7	-	-	#
	Classification:	-				
Chromium		< 2	7440-47-3 231-157-5	-	-	#
	Classification:	-				
Nickel		< 1	7440-02-0 231-111-4	-	028-002-01-4	
	Classification:	Skin Sens	. 1;H317, Carc. 2;H35	51, STOT RE 1;H372		
Ethylbenzene		< 0,4	100-41-4 202-849-4	-	601-023-00-4	#
	Classification:		2;H225, Acute Tox. 4 sp. Tox. 1;H304, Aqu	;H332;(ATE: 17,4 mg/l), ST atic Chronic 3;H412	OT RE	
C.I. Pigment Blue 28		< 0,4	1345-16-0 310-193-6	-	-	
	Classification:	-				
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,	

#### List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

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**Take off all contaminated clothing immediately. 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. Wash contaminated clothing before reuse.

# 4.1. Description of first aid measures

4.1. Description of first alu meas	
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 measures**

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 release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures For non-emergency Wear appropriate protective equipment and clothing during clean-up. Avoid breathing

personnel	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.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.
SECTION 7: Handling and s	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.
	Do not breathe 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)
7.3. Specific end use(s)	Paint / Industrial coating (topcoat). Category: Pigmented metallic coating. Observe industrial sector guidance on best practices.
<b>SECTION 8: Exposure cont</b>	rols/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	
Chromium (CAS 7440-47-3)	MAK	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	Ceiling	880 mg/m3	
		200 ppm	

Austria. MAK List Components	Туре	Value	
	MAK	440 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	Ceiling	480 mg/m3	
		100 ppm	
	MAK	241 mg/m3	
		50 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

Туре	Value
STEL	1187 mg/m3
	492 ppm
TWA	594 mg/m3
	246 ppm
STEL	2370 mg/m3
	980 ppm
TWA	0,5 mg/m3
STEL	551 mg/m3
	125 ppm
TWA	87 mg/m3
	20 ppm
STEL	712 mg/m3
	150 ppm
TWA	238 mg/m3
	50 ppm
TWA	1 mg/m3
TWA	1000 ppm
	STEL TWA STEL TWA STEL TWA TWA

# 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	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	435 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	
Nickel (CAS 7440-02-0)	TWA	0,05 mg/m3	

Components	Туре	Value	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
Croatia. OELs (GVI). Regulation of Biological Limit Values, Annex I (I		ist Exposure to Dangerous Ch	nemicals at Work, OELs and
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.
Chromium (CAS 7440-47-3)	MAC	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	MAC	442 mg/m3	
		100 ppm	
	STEL	884 mg/m3	
		200 ppm	
n-Butyl acetate (CAS 123-86-4)	MAC	241 mg/m3	
		50 ppm	
	STEL	723 mg/m3	
		150 ppm	
Nickel (CAS 7440-02-0)	MAC	0,5 mg/m3	
Cyprus. OELs. Control of factory a Components	atmosphere and dangerous s Type	ubstances in factories regulat Value	ion, PI 311/73, as amended
Nickel (CAS 7440-02-0)	TWA	1 mg/m3	
Cyprus. OELs. Occupational Expo Reg., Ann. 1, R.A.A. 268/2001, as a	sure Limit Values of Chemica	-	at Work (Chem. Agents)
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
,		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
	STEL	723 mg/m3	
•			
		150 ppm	
n-Butyl acetate (CAS 123-86-4)	TWA	150 ppm 241 mg/m3	

# 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	Гуре	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.

# 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
	TWA	0,5 mg/m3	Aerosol, inhalable.
Chromium (CAS 7440-47-3)	Ceiling	1,5 mg/m3	Aerosol, inhalable.
	TWA	0,5 mg/m3	Dust.
		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	
n-Butyl acetate (CAS 123-86-4)	Ceiling	723 mg/m3	
	TWA	241 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	
Chromium (CAS 7440-47-3)	TLV	0,5 mg/m3	Dust.
Ethylbenzene (CAS 100-41-4)	TLV	217 mg/m3	
		50 ppm	
n-Butyl acetate (CAS 123-86-4)	TLV	241 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	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	TWA	1500 mg/m3	
		800 ppm	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	

		1000 ppm	
Finland. HTP-arvot, App 3., Bindiı Components	ng Limit Values, Social Affairs Type	and Ministry of Health Value	Form
Acetone (CAS 67-64-1)	STEL	1500 mg/m3	
		630 ppm	
	TWA	1200 mg/m3	
		500 ppm	
3utane (CAS 106-97-8)	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	
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Distillates (petroleum), nydrotreated 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	
n-Butyl acetate (CAS 123-86-4)	STEL	725 mg/m3	
		150 ppm	
	TWA	240 mg/m3	
		50 ppm	
Nickel (CAS 7440-02-0)	TWA	0,01 mg/m3	Respirable.
Propane (CAS 74-98-6)	STEL	2000 mg/m3	
		1100 ppm	
	TWA	1500 mg/m3	
		800 ppm	
France. OELs. Indicative Occupat Components	ional Exposure Limits as Pres Type	cribed by Order of 30 June 20 Value	04, as amended Form
C.I. Pigment black 028	VME	0,2 mg/m3	Inhalable fraction.
CAS 68186-91-4)		0,05 mg/m3	Respirable fraction.
Chromium (CAS 7440-47-3)	VME	2 mg/m3	
France. OELs. Occupational Expo Components	osure Limits as Prescribed by Type	Art. R.4412-149 of Labor Code Value	e, as amended
Acetone (CAS 67-64-1)	VLE	2420 mg/m3	
. ,		1000 ppm	
	VME	1210 mg/m3	
		500 ppm	
Ethylbenzene (CAS	VLE	442 mg/m3	
100-41-4)		·	
		100 ppm	
	VME	88,4 mg/m3	
		20 ppm	
n-Butyl acetate (CAS 123-86-4)	VLE	723 mg/m3 150 ppm	

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

Components	Туре	Value	
	VME	241 mg/m3	
		50 ppm	
France. Threshold Limit Components	Values (VLEP) for Occupational Exposu Type	ure to Chemicals in France, IN Value	RS ED 984
Acetone (CAS 67-64-1)	VLE	2420 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		1000 ppm	
Regulatory status:	Regulatory binding (VRC)		
	VME	1210 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		500 ppm	
Regulatory status:	Regulatory binding (VRC)		
Butane (CAS 106-97-8)	VME	1900 mg/m3	
Regulatory status:	Indicative limit (VL)		
		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)		
n-Butyl acetate (CAS 123-86-4)	VLE	723 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		150 ppm	
Regulatory status:	Regulatory binding (VRC)		
	VME	241 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		50 ppm	
Regulatory status:	Regulatory binding (VRC)		
Nickel (CAS 7440-02-0)	VME	1 mg/m3	
Regulatory status:	Indicative limit (VL)		
Germany. DFG MAK Lis in the Work Area (DFG)	t (advisory OELs). Commission for the Ir	nvestigation of Health Hazard	s of Chemical Compounds
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.

TWA

88 mg/m3

20 ppm

Ethylbenzene (CAS 100-41-4)

in the Work Area (DFG) Components	Туре	Value	Form
n-Butyl acetate (CAS 123-86-4)	TWA	480 mg/m3	
,		100 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
Germany. TRGS 900, Limit Values	in the Ambient Air at the Wor	kplace	
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	AGW	1 mg/m3	
96-29-7)		-	
		0,3 ppm	
C.I. Pigment black 028 CAS 68186-91-4)	AGW	2 mg/m3	Inhalable fraction.
Chromium (CAS 7440-47-3)	AGW	2 mg/m3	Inhalable fraction.
Distillates (petroleum),	AGW	300 mg/m3	
ydrotreated light (CAS 94742-47-8)		eee mgrine	
Ethylbenzene (CAS I00-41-4)	AGW	88 mg/m3	
		20 ppm	
n-Butyl acetate (CAS 23-86-4)	AGW	300 mg/m3	
		62 ppm	
lickel (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			
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	
Chromium (CAS 7440-47-3)	TWA	1 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

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

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	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	442 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
	TWA	241 mg/m3	

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

Components	Гуре	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.
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	Dust.
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	200 mg/m3	
		50 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 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	Туре	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	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	

Components	Туре	Value	-
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 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	
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	
Nickel (CAS 7440-02-0)	TWA	1,5 mg/m3	Inhalable fraction.

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

# Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 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	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 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) Value

Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	2420 mg/m3

Туре	Value
	1000 ppm
TWA	1210 mg/m3
	500 ppm
TWA	20 mg/m3
TWA	2 mg/m3
TWA	2 mg/m3
STEL	500 mg/m3
TWA	350 mg/m3
STEL	884 mg/m3
	200 ppm
TWA	442 mg/m3
	100 ppm
STEL	723 mg/m3
	150 ppm
TWA	241 mg/m3
	50 ppm
TWA	0,5 mg/m3
	TWA TWA TWA TWA STEL TWA STEL TWA TWA

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

# 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	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 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	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 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	
	TWA	241 mg/m3	
		50 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	
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	430 mg/m3	
	TWA	215 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
	TWA	241 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	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TLV	241 mg/m3	
		50 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	
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	400 mg/m3	
	TWA	200 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	720 mg/m3	
	TWA	240 mg/m3	

Components	Туре	Value	
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 Limi	it Values, Annex II, as amende	d
Components	Туре	Value	
cetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
thylbenzene (CAS 00-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
-Butyl acetate (CAS 23-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	
ortugal. VLEs. Norm on occupati			_
omponents	Туре	Value	Form
cetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
utane (CAS 106-97-8)	STEL	1000 ppm	
	TWA	1000 ppm	
.I. Pigment black 028 CAS 68186-91-4)	TWA	0,1 mg/m3	Inhalable fraction.
		0,02 mg/m3	Respirable fraction
hromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Ethylbenzene (CAS 00-41-4)	TWA	20 ppm	
-Butyl acetate (CAS 23-86-4)	STEL	200 ppm	
	TWA	150 ppm	
lickel (CAS 7440-02-0)	TWA	1,5 mg/m3	Inhalable fraction.
Propane (CAS 74-98-6)	TWA	2500 ppm	
Romania. OELs. Limit Values of C mended)	hemical Agents at Workplace	e (Regulation 1.218/2006, M.O 8	345, Annex 1, 3&4, as

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	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	

Components	Туре	Value	
lickel (CAS 7440-02-0)	STEL	0,5 mg/m3	
	TWA	0,1 mg/m3	
ropane (CAS 74-98-6)	STEL	1800 mg/m3	
		1000 ppm	
	TWA	1400 mg/m3	
		778 ppm	
Novakia. OELs for carcinogens an	d mutagens. Regulation No.	356/2006 on carcinogenic and	mutagenic substances, a
mended Components	Туре	Value	Form
utane (CAS 106-97-8)	TWA	2400 mg/m3	
		1000 ppm	
lickel (CAS 7440-02-0)	TWA	0,05 mg/m3	Inhalable fraction.
Slovakia. OELs. Decree of the gove			
gents	-		
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.
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
thylbenzene (CAS 00-41-4)	TWA	442 mg/m3	
		100 ppm	
on (Massive metal) (CAS 439-89-6)	TWA	6 mg/m3	
-Butyl acetate (CAS 23-86-4)	TWA	241 mg/m3	
		50 ppm	
lovakia. OELs. Maximum permiss	ible exposure limits for chem	nical factors in workplace air (	Regulation No 355/2006,
Annex 1, Table 1, as amended)	Туре	Value	
thylbenzene (CAS	STEL	884 mg/m3	
00-41-4)			
		200 ppm	
-Butyl acetate (CAS 23-86-4)	STEL	723 mg/m3	
,		150 ppm	
Slovenia. OELs. Occupational Exp			n of Workers from Risks
lue to Exp. to Chemicals at Work, Components	-	l Value	Form
-	Туре		
cetone (CAS 67-64-1)	KTV	2420 mg/m3	
		1000 ppm	
utane (CAS 106-97-8)	KTV	9600 mg/m3	
		4000 ppm	
Butanone oxime (CAS 6-29-7)	KTV	8 mg/m3	
		2,4 ppm	
Chromium (CAS 7440-47-3)	KTV	2 mg/m3	Inhalable fraction.
Ethylbenzene (CAS 00-41-4)	KTV	884 mg/m3	
		200 ppm	

# Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Ann. I 100/2001), as amended

Components	Туре	Value	Form
n-Butyl acetate (CAS 123-86-4)	KTV	723 mg/m3	
		150 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.
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	Inhalable fraction.
Ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	TWA	241 mg/m3	
		50 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
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3
		150 ppm
	TWA	241 mg/m3
		50 ppm
Nickel (CAS 7440-02-0)	TWA	1 mg/m3
Propane (CAS 74-98-6)	TWA	1000 ppm

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	1200 mg/m3	
		500 ppm	
	TWA	600 mg/m3	
		250 ppm	
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	Total dust.
Distillates (petroleum), nydrotreated light (CAS 34742-47-8)	STEL	500 mg/m3	
	TWA	350 mg/m3	
thylbenzene (CAS 00-41-4)	Ceiling	884 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
n-Butyl acetate (CAS 123-86-4)	Ceiling	723 mg/m3	
		150 ppm	
	STEL	700 mg/m3	
		150 ppm	
	TWA	500 mg/m3	
		100 ppm	
lickel (CAS 7440-02-0)	TWA	0,5 mg/m3	Total dust.
witzerland. SUVA Grenzwerte am Components	Arbeitsplatz: Aktuelle MAK-Werte Type	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.
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	Inhalable fraction.
Distillates (petroleum), nydrotreated light (CAS 04742-47-8)	STEL	700 mg/m3	Vapour.
,		100 ppm	Vapour.
	TWA	5 mg/m3	Aerosol
		350 mg/m3	Vapour.
		50 ppm	Vapour.
Ethylbenzene (CAS 00-41-4)	STEL	220 mg/m3	
		50 ppm	
	TWA	220 mg/m3	
		50 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	720 mg/m3	
		150 ppm	
	TWA	240 mg/m3	
		50 ppm	

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

Switzerland. SUVA Grenzwerte am Components	Туре	Value	Form
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 Li Components	mits (WELs) (EH40/2005 (Fou Type	rth Edition 2020)), Table 1 Value	
Acetone (CAS 67-64-1)	STEL	3620 mg/m3	
		1500 ppm	
	TWA	1210 mg/m3	
		500 ppm	
Butane (CAS 106-97-8)	STEL	1810 mg/m3	
		750 ppm	
	TWA	1450 mg/m3	
		600 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	0,5 mg/m3	
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	552 mg/m3	
		125 ppm	
	TWA	441 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	966 mg/m3	
		200 ppm	
	TWA	724 mg/m3	
		150 ppm	
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	
EU. Indicative Exposure Limit Valı Components	ues in Directives 91/322/EEC, Type	2000/39/EC, 2006/15/EC, 2009/16 Value	1/EU, 2017/164/EU
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
C.I. Pigment black 028	TWA	2 mg/m3	

		500 ppm	
C.I. Pigment black 028 (CAS 68186-91-4)	TWA	2 mg/m3	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	

# **Biological limit values**

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			
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	
Chromium (CAS 7440-47-	3)0,065 µmol/mmol	Total chromium	Creatinine in urine	*	
	0,03 mg/g	Total chromium	Creatinine in urine	*	
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	*

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

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

			-		
Acetone (CAS 67-64-1)	100 mg/l	Acétone	Urine	*	
Ethylbenzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*	
* - For sampling details, please see the source document.					

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

Germany. TRGS 903, BA 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	*

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

Componente	, and o	201011111	opeenien	oumping mile	
Chromium (CAS 7440-47-	-3)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	*	
Nickel (CAS 7440-02-0)	0,051 µmol/l	Nickel	Urine	*	
	0,003 mg/l	Nickel	Urine	*	

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

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

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, please see the source document.

# UK. BELs. Biological Monitoring Guidance Values (BMGVs) (EH40/2005 (Fourth Edition 2020)), Table 2ComponentsValueDeterminantSpecimenSampling Time

Chromium (CAS 7440-47-3)10 umol/mol C		omium	Creatinine in * urine	
* - For sampling details, plea	ase see the source document			
Recommended monitoring procedures	Follow standard monitorir	ng procedure	28.	
Derived no effect levels (DNELs)	Not available.			
Predicted no effect concentrations (PNECs)	Not available.			
Exposure guidelines				
Germany DFG MAK (advis	ory): Skin designation			
Butanone oxime (CAS 9 Germany TRGS 900 Limit		Can b	e absorbed through the skin.	
Butanone oxime (CAS 96-29-7) Lithuania OELs: Skin designation			e absorbed through the skin.	
Benzene, 1-chloro-4-(tr	ifluoromethyl)- (CAS 98-56-6)	Can b	e absorbed through the skin.	

Slovakia OELs for Carcinogens and Mutagens: Skin designation				
Nickel (CAS 7440-02-0)		Can be absorbed through the skin.		
Slovenia. OELs. Regulation (Official Gazette of the Repu		kers against risks due to exposure to chemicals while working		
Butanone oxime (CAS 96 UK EH40 WEL: Skin design	,	Can be absorbed through the skin.		
Nickel (CAS 7440-02-0)	Nickel (CAS 7440-02-0) Can be absorbed through the skin.			
8.2. Exposure controls				
Appropriate engineering controls	Ventilation rates should be main exhaust ventilation, or other en	cal exhaust ventilation. Good general ventilation should be used. tched to conditions. If applicable, use process enclosures, local gineering controls to maintain airborne levels below recommended access to water supply and eye wash facilities.		
Individual protection measures,				
General information		nent as required. Personal protection equipment should be chosen Is and in discussion with the supplier of the personal protective		
Eye/face protection	Wear safety glasses with side needed. Eye protection should	shields (or goggles) and a face shield. Wear a full-face respirator, if meet standard EN 166.		
Skin protection				
- Hand protection	of 15 +/- 15 minutes. Minimum penetrate the gloves. Frequent	EN374. Glove material: Nitrile. Use gloves with breakthrough time glove thickness 0.381 (15 mil) mm. Be aware that the liquid may change is advisable. The most suitable glove must be chosen in pplier, who can inform about the breakthrough time of the glove		
- Other	Wear appropriate chemical res	istant clothing. Use of an impervious apron is recommended.		
Respiratory protection	limits (where applicable) or to a been established), an approve combination filter (dust and gas	naintain airborne concentrations below recommended exposure an acceptable level (in countries where exposure limits have not d respirator must be worn. Wear respiratory protection with s filter) during spraying operations. Use filter type (ABEK2/P3) ith respiratory protective equipment suppliers.		
Thermal hazards	Wear appropriate thermal prote	ective clothing, when necessary.		
Hygiene measures	personal hygiene measures, su drinking, and/or smoking. Rou contaminants. Contaminated w	nce requirements. When using do not smoke. Always observe good uch as washing after handling the material and before eating, tinely wash work clothing and protective equipment to remove vork clothing should not be allowed out of the workplace.		
Environmental exposure controls	from ventilation or work proces requirements of environmental	or supervisory personnel of all environmental releases. Emissions s equipment should be checked to ensure they comply with the protection legislation. Fume scrubbers, filters or engineering quipment may be necessary to reduce emissions to acceptable		

#### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Liquid. **Physical state** Form Aerosol - Pressurized liquid (spray). Colour Charcoal gray. Odour Characteristic of solvents. **Odour threshold** Property has not been measured. Melting point/freezing point > -95 °C (> -139 °F) Boiling point or initial boiling > 56 °C (> 132,8 °F) point and boiling range Extremely flammable aerosol. Flammability Upper/lower flammability or explosive limits Explosive limit - lower (%) 0,6 % Explosive limit - upper 12,8 % (%) Flash point Not applicable, product is an aerosol dispenser. > 236 °C (> 456,8 °F) (liquid) Auto-ignition temperature 230,6 °C (447 °F) (liquid) **Decomposition temperature** pН Not applicable (material is insoluble in water). 2700 mm²/s (25 °C (77 °F)) **Kinematic viscosity** STEEL-IT 1006B Polyurethane Aerosol – Charcoal

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	1,02 g/cm³ (25 °C (77 °F))
Relative density	1,02 (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 to physical hazard classes	No relevant additional information available.
9.2.2. Other safety characteristic	CS CS
Evaporation rate	Property has not been measured.
Viscosity	Property has not been measured.
VOC	MIR CA < 1,25
SECTION 10: Stability and	l 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: Toxicologica	al information
General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of e	xposure
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

# IngestionMay cause discomfort if swallowed.SymptomsMay cause drowsiness or dizziness. Headache. Fatigue. Nausea, vomiting. Very high exposure<br/>can cause suffocation from lack of oxygen. Symptoms may include loss of<br/>mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about<br/>unconsciousness without warning and so rapidly that victim may be unable to protect themself.<br/>Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Causes serious eye irritation.

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

harmful.

Skin contact

Eye contact

Acute toxicity	Not expected to be acutely toxic.			
Components	Species Test Results			
Acetone (CAS 67-64-1)				
<u>Acute</u>				
Dermal				
LD50	Rabbit	> 15700 mg/kg, 24 Hours		
Inhalation				
Vapour				
LC50	Rat	76 mg/l, 4 Hours		

Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Causes skin irritation. May cause an allergic skin reaction. May be absorbed through the skin.

vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Components	Species	Test Results
<b>Oral</b> LD50	Rat	5800 mg/kg
	rai	5600 mg/kg
Butane (CAS 106-97-8)		
<u>Acute</u> Inhalation		
LC50	Rat	658 mg/l, 4 Hours
Butanone oxime (CAS 96-29-7)	nat	000 mg/l, 4 hours
Acute		
Dermal		
LD50	Rabbit	> 1000 mg/kg, 24 Hours
Oral		
LD50	Rat	> 900 mg/kg
Ethylbenzene (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	15400 mg/kg
Inhalation		
LC50	Rat	17,4 mg/l, 4 hours
Oral		
LD50	Rat	3500 - 4700 mg/kg
n-Butyl acetate (CAS 123-86-4)		
Acute		
Inhalation		
LC50	Rat	2000 ppm, 4 Hours
Oral		
LD50	Rat	10770 mg/kg
Propane (CAS 74-98-6)		
<u>Acute</u>		
Inhalation		
Gas	- /	
LC50	Rat	> 80000 ppm, 15 Minutes
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
	Read on available data, the	lossification criteria are not met
Respiratory sensitisation		classification criteria are not met.
Skin sensitisation	May cause an allergic skin rea	
Germ cell mutagenicity		classification criteria are not met.
Carcinogenicity	May cause cancer.	
Hungary. 26/2000 EûM Ordi (as amended)	nance on protection against a	nd preventing risk relating to exposure to carcinogens at work
Butanone oxime (CAS 96 IARC Monographs. Overall	S-29-7) Evaluation of Carcinogenicity	
- · ·	uoromethyl)- (CAS 98-56-6)	2B Possibly carcinogenic to humans.
C.I. Pigment black 028 (C		3 Not classifiable as to carcinogenicity to humans.
Chromium (CAS 7440-47-3) Nickel (CAS 7440-02-0)		3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans.
Slovenia. OELs. Regulation		rkers against risks due to exposure to chemicals while working
(Official Gazette of the Repu Butanone oxime (CAS 96	-	Carcinogenic, Category 2.
Nickel (CAS 7440-02-0)	Supported of domesting for the	Carcinogenic, Category 2.
Reproductive toxicity		y or the unborn child by inhalation.
Specific target organ toxicity - single exposure	May cause drowsiness or diz	iness.
Specific target organ toxicity - repeated exposure	Based on available data, the	classification criteria are not met.

Aspiration hazard	Based on available data, the classification criteria are not met.			
Mixture versus substance	No information available.			
11.2. Information on other haza	ards			
Endocrine disrupting properties	to human he 1907/2006,	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 r	nay be delayed.		
SECTION 12: Ecological i	information			
12.1. Toxicity		Harmful to aquatic life with long lasting effects.		
Components		Species	Test Results	
Acetone (CAS 67-64-1)		-		
Aquatic Acute				
Crustacea	LC50	Daphnia pulex	8800 mg/l, 48 Hours	
Fish	LC50	Pimephales promelas	7163 mg/l, 96 Hours	
Chronic				
Crustacea	NOEC	Daphnia magna	> 79 mg/l, 21 days	
Distillates (petroleum), hydrotreat Aquatic Acute	ted light (CAS 6	94742-47-8)		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2,9 mg/l, 96 hours	
Ethylbenzene (CAS 100-41-4)				
<b>Aquatic</b> <i>Acute</i>				
Crustacea	EC50	Water flea (Daphnia magna)	1,81 - 2,38 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4,2 mg/l, 96 hours	
<i>Chronic</i> Crustacea		Cariadanhnia dukia		
-	EC50	Ceriodaphnia dubia	3,6 mg/l, 7 days	
Nickel (CAS 7440-02-0) Aquatic				
Acute				
Crustacea	EC50	Water flea (Daphnia magna)	1 mg/l, 48 hours	
	LC50	Calanoid copepod (Eurytemora affinis)	>= 7,35 - <= 12,12 mg/l, 96 hours	
12.2. Persistence and degradability	No data is a	No data is available on the degradability of this product.		
12.3. Bioaccumulative potentia	I			
Partition coefficient n-octanol/water (log Kow)	Not applicat	ble, product is a mixture.		
Acetone (CAS 67-64-1) Benzene, 1-chloro-4-(trifluoro Butane (CAS 106-97-8) Ethylbenzene (CAS 100-41-4		-0,24 98-56-6) 3,6 2,89 3,15		
Bioconcentration factor (BCF)	Not availabl	e.		
12.4. Mobility in soil	The product	is insoluble in water. Not expected to be me	obile in soil.	
12.5. Results of PBT and vPvB assessment	bioaccumula	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	to the enviro 1907/2006,	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 potential.	contains volatile organic compounds which	have a photochemical ozone creation	

#### 12.8. Additional information

Estonia	Dangerous	substances	in	soil	Data
---------	-----------	------------	----	------	------

Chromium (CAS 7440-47-3)	Chromium (Cr) 100 mg/kg Chromium (Cr) 300 mg/kg
	Chromium (Cr) 800 mg/kg
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. Incinerate the material under controlled conditions in an approved incinerator. 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	
14.1. UN number	UN1950
	AEROSOLS, flammable
name	
14.3. Transport hazard class(	-
Class	2
Subsidiary risk	-
Label(s)	2.1
Hazard No. (ADR)	-
	D
14.4. Packing group	-
14.5. Environmental hazards	
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(	-
Class	2
Subsidiary risk	-
Label(s)	2.1
14.4. Packing group	-
14.5. Environmental hazards	
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
ADN	
14.1. UN number	UN1950
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	No
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

14.1. UN number     UN1950       14.2. UN proper shipping     Aerosols, flammable       name     Output	
- F FF - FF 5 /	
name	
14.3. Transport hazard class(es)	
Class 2.1	
Subsidiary risk -	
Label(s) 2.1	
14.4. Packing group -	
14.5. Environmental hazards No	
ERG Code 10L	
14.6. Special precautions Read safety instructions, SDS and emergency procedures before hand	lling.
for user	
IMDG	
14.1. UN number UN1950	
14.2. UN proper shipping AEROSOLS, flammable	
name	
14.3. Transport hazard class(es)	
Class 2	
Subsidiary risk -	
14.4. Packing group -	
14.5. Environmental hazards	
Marine pollutant No	
EmS F-D, S-U	
14.6. Special precautions Read safety instructions, SDS and emergency procedures before hand	lling.
for user	
14.7. Maritime transport in bulk Not established. according to IMO instruments	

# **SECTION 15: Regulatory information**

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

#### **EU** regulations

ΙΑΤΑ

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) Chromium (CAS 7440-47-3) 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
Distillates (petroleum), hydrotreated light	3
(CAS 64742-47-8)	
n-Butyl acetate (CAS 123-86-4)	3
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		
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 list of registry of sensitizing substances

Nickel (CAS 7440-02-0)	Nickelverbindungen, Wasserlösliche insbesondere Ni-sulfat und Ni-dichlorid
France regulations	
France INRS Table of Occupational 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
n-Butyl acetate (CAS 123-86-4)	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 Chamical safety Asse	sement has been carried out

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

#### List of abbreviations

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany). ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road. EC50: Effective Concentration 50%. IATA: International Air Transport Association. IMDG Code: International Maritime Dangerous Goods Code. IMO: International Maritime Organization. KTV: Short term exposure limit LC50: Lethal Concentration 50%. LD50: Lethal Dose 50%. MAC: Maximum Allowed Concentration. 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 Value.

References	VLE: Exposure Limit Value. VME: Exposure Average Value. vPvB: very Persistent, very Bioaccumulative. ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices ECHA: European Chemical Agency. EPA: AQUIRE database HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens NLM: Hazardous Substances 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 gas.</li> <li>H225 Highly flammable liquid and vapour.</li> <li>H226 Flammable liquid and vapour.</li> <li>H280 Contains gas under pressure; may explode if heated.</li> <li>H301 Toxic if swallowed.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful i finhaled.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H351 Suspected of causing cancer.</li> <li>H351 Suspected of damaging fertility or the unborn child.</li> <li>H370 Causes damage to organs.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>
Training information	H412 Harmful to aquatic life with long lasting effects. Follow training instructions when handling this material.
Disclaimer	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.