

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended

Cleaner 6810

Version 13.2

Print Date 28.09.2026

Revision date / valid from 26.01.2026

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : Cleaner 6810
Substance name : Reaction mass of ethylbenzene and xylene
EC-No. : 905-588-0
EU REACH-Reg. No. : 01-2119488216-32-xxxx

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Identified use: See table in front of appendix for a complete overview of identified uses.

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

HM Industrieservice GmbH
Großer Sand 3
76698 Ubstadt-Weiher
Germany
Telefon: +49 7251 44127-0
Telefax: +49 7251 44127-29
E-Mail: info@hm-industrie.de
Web: www.hm-industrie.de

1.4. Emergency telephone number

+49 7251 44127-0
This number is only available during the following office hour:
Mo-Fr 07:30 to 16:00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008

Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 3	---	H226
Acute toxicity (Dermal)	Category 4	---	H312

Cleaner 6810

Aspiration hazard	Category 1	---	H304
Skin irritation	Category 2	---	H315
Eye irritation	Category 2	---	H319
Acute toxicity (Inhalation)	Category 4	---	H332
Specific target organ toxicity - single exposure	Category 3	Respiratory system	H335
Specific target organ toxicity - repeated exposure (Inhalation)	Category 2	Auditory system, Liver, Kidney, Central nervous system	H373
Long-term (chronic) aquatic hazard	Category 3	---	H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9/10 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal word : Danger

Hazard statements : H226 H304 H312 + H332 H315 H319 H335 H373 H412	Flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs (Auditory system, Liver, Kidney, Central nervous system) through prolonged or repeated exposure if inhaled. Harmful to aquatic life with long lasting effects.
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Cleaner 6810

Precautionary statements

Prevention	:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	:	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
		P331	Do NOT induce vomiting.
		P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

- Reaction mass of ethylbenzene and xylene

2.3. Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Flammable. Heating may produce combustible vapour which can form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components		Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
			Hazard class / Hazard category	Hazard statements
Reaction mass of ethylbenzene and xylene				
EC-No.	: 905-588-0	<= 100	Flam. Liq.3 Acute Tox.4 Dermal Acute Tox.4 Inhalation Skin Irrit.2	H226 H312 H332 H315

Cleaner 6810

EU REACH- : 01-2119488216-32-xxxx
Reg. No.

Eye Irrit.2	H319
STOT SE3	H335
STOT RE2	H373
Asp. Tox.1	H304
Aquatic Chronic3	H412

Acute toxicity estimate
Acute inhalation toxicity
(vapour): 11 mg/l
Acute dermal toxicity: 1100
mg/kg

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Remove from exposure, lie down. Take off all contaminated clothing immediately. First aider needs to protect himself.
If inhaled	: Remove to fresh air. In case of shortness of breath, give oxygen. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: Wash off immediately with plenty of water. After massive skin contact get medical attention immediately.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If easy to do, remove contact lens, if worn. Consult an eye specialist immediately.
If swallowed	: Rinse mouth with water. Do NOT induce vomiting. Risk of aspiration! If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Call a physician immediately.
Protection of First Aid Responders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	: Eye irritation; , Skin irritation; , Respiratory irritation; , Unconsciousness; , Central nervous system depression; , Drowsiness; , Headache; , Tiredness; , Dizziness; , Nausea;
Effects	: Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may cause pulmonary oedema and pneumonitis.

4.3. Indication of any immediate medical attention and special treatment needed

Cleaner 6810

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
 Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Combustible liquid. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. Fire may cause evolution of: Carbon oxides, The product is insoluble and floats on water.

5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)
 Further advice : Cool closed containers exposed to fire with water spray. Risk of closed containers bursting if strongly heated. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Keep away unprotected persons. Move away upwind from the hazard source. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapor/spray.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Ventilate the area. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

Cleaner 6810

Further information : Risk of explosion. If substance has entered a water course or sewer or contaminated soil or vegetation advise fire brigade or police. Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Handle and open container with care. Provide sufficient air exchange and/or exhaust in work rooms. All metal parts of the mixing and processing equipment must be earthed. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe gas/fumes/vapor/spray. Smoking, eating and drinking should be prohibited in the application area. Keep away from food, drink and animal feedstuffs. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in an area equipped with solvent resistant flooring. Suitable materials for containers: Stainless steel; Unsuitable materials for containers: Polyvinylchloride; polyethylene containers; Rubber products

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. Take precautionary measures against static discharges. Use only explosion-proof equipment.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Keep away from heat. Keep away from direct sunlight.

Advice on common storage : Incompatible with oxidizing agents. Keep away from strong acids. Do not store together with oxidizing and self-igniting products.

German storage class : 3 Flammable liquids

7.3. Specific end use(s)

Cleaner 6810

Specific use(s) : Identified use: See table in front of appendix for a complete overview of identified uses.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	Reaction mass of ethylbenzene and xylene
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)	

DNEL

Workers, Long-term - systemic effects, Long-term - local effects, Inhalation : 221 mg/m³

DNEL

Workers, Acute - systemic effects, Acute - local effects, Inhalation : 442 mg/m³

DNEL

Workers, Long-term - systemic effects, Skin contact : 212 mg/kg bw/day

DNEL

Consumers, Long-term - systemic effects, Long-term - local effects, Inhalation : 65,3 mg/m³

DNEL

Consumers, Acute - systemic effects, Acute - local effects, Inhalation : 260 mg/m³

DNEL

Consumers, Long-term - systemic effects, Skin contact : 125 mg/kg bw/day

DNEL

Consumers, Long-term - systemic effects, Ingestion : 5 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water : 0,044 mg/l

Marine water : 0,004 mg/l

Freshwater intermittent releases : 0,01 mg/l

Sewage treatment plant (STP) : 1,6 mg/l

Fresh water sediment : 2,52 mg/kg dry weight (d.w.)

Marine sediment : 0,252 mg/kg dry weight (d.w.)

Soil : 0,852 mg/kg dry weight (d.w.)

Cleaner 6810

Component:	xylene	CAS-No. 1330-20-7
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Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
100 ppm, 442 mg/m³

Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
50 ppm, 221 mg/m³

Indicative

Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended, Skin designation:
Can be absorbed through the skin.

Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended, Exposure limit(s):
50 ppm, 220 mg/m³, (2)

Biological Exposure Indices

Germany. TRGS 903: Biological Limit Values (BGW), as amended, Methylhippuric (toluric) acid (all isomers), Creatinine in urine
1.800 mg/g, Sampling time: End of shift.

Component:	ethylbenzene	CAS-No. 100-41-4
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Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
100 ppm, 442 mg/m³

Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
200 ppm, 884 mg/m³

Indicative

Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended, Skin designation:
Can be absorbed through the skin.

Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended, Exposure limit(s):
20 ppm, 88 mg/m³, (2)
If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).

Biological Exposure Indices

Cleaner 6810

Germany. TRGS 903: Biological Limit Values (BGW), as amended, Mandelic acid plus phenylglyoxylic acid, Creatinine in urine
250 mg/g, Sampling time: End of shift.

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Required if vapours or aerosol are released.
Required, if exposure limit is exceeded (e.g. OEL).
In case of brief exposure or low pollution use breathing filter apparatus.
In case of intensive or longer exposure use self-contained breathing apparatus.
Recommended Filter type:
Filter type A for organic gases and vapors.

Hand protection

Advice : Wear suitable gloves.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.
Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.
Protective gloves should be replaced at first signs of wear.

Material : Fluorinated rubber
Break through time : ≥ 8 h
Glove thickness : 0,4 mm

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Protecting Clothes : Solvent resistant protective clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.
If material reaches soil inform authorities responsible for such cases.

Cleaner 6810

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	: liquid
Physical state	: liquid
Colour	: colourless
Odour	: aromatic
Odour Threshold	: No data available
Melting point/ range	: < -25 °C
Boiling point/boiling range	: 136 - 145 °C
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: 8 %(V)
Lower explosion limit / Lower flammability limit	: 1 %(V)
Flash point	: 23 - 29 °C
Auto-ignition temperature	: 460 °C
Decomposition temperature	: No data available
Self-Accelerating decomposition temperature (SADT)	: No data available
pH	: Not applicable
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Solubility(ies)	
Water solubility	: 0,175 kg/m ³ (25 °C)
Solubility in other solvents	: No data available
Dissolution Rate	: No data available
Partition coefficient: n-octanol/water	: No data available
Dispersion Stability	: No data available
Vapour pressure	: 0,8 kPa (20 °C)
	4,5 kPa (50 °C)

Cleaner 6810

Relative density	: No data available
Density	: 0,87 g/cm ³ (20 °C)
Bulk density	: No data available
Relative vapour density	: No data available

9.2 Other information

Explosives	: Formation of explosive air/vapour mixtures is possible.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Advice	: No information available.
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10.2. Chemical stability

Advice	: Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: Formation of explosive air/vapour mixtures is possible.
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10.4. Conditions to avoid

Conditions to avoid	: Keep away from heat and sources of ignition. Keep away from direct sunlight.
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10.5. Incompatible materials

Materials to avoid	: Strong acids, Strong oxidizing agents
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10.6. Hazardous decomposition products

Hazardous decomposition products	: Under fire conditions: Carbon oxides, Under certain fire conditions, traces of other toxic products cannot be excluded.
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SECTION 11: Toxicological information

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

Data for the product

Acute toxicity

Inhalation

Harmful if inhaled.

Dermal

Cleaner 6810

Harmful in contact with skin.

Further information

Other relevant toxicity : Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Component: Reaction mass of ethylbenzene and xylene

Acute toxicity

Oral

No valid data available.

Irritation

Skin

Result : (Irritating to skin.) Prolonged skin contact may defat the skin and produce dermatitis.

Eyes

Result : Causes serious eye irritation.

Sensitisation

Result : No sensitizing effect known.

CMR effects

CMR Properties

Carcinogenicity : Based on available data, the classification criteria are not met.
Mutagenicity : Based on available data, the classification criteria are not met.
Reproductive toxicity : Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity

Single exposure

Remarks : May cause respiratory irritation.

Repeated exposure

Remarks : Target Organs: Auditory system, Liver, Kidney, Central nervous system
May cause damage to organs through prolonged or repeated exposure.

Cleaner 6810

Other toxic properties

Aspiration hazard

May be fatal if swallowed and enters airways.,

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Component: Reaction mass of ethylbenzene and xylene

Acute toxicity

Fish

LC50 : 2,6 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

IC50 : 1 mg/l (Daphnia magna (Water flea); 24 h) (OECD Test Guideline 202)

algae

EC50 : 4,7 mg/l (Selenastrum capricornutum; 72 h) (OECD Test Guideline 201)
NOEC : 0,44 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (OECD Test Guideline 201)

12.2. Persistence and degradability

Cleaner 6810

Component:	Reaction mass of ethylbenzene and xylene
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Persistence and degradability

Biodegradability

Result : 90 % (aerobic; Related to: O₂ consumption; Exposure Time: 28 d)(OECD Test Guideline 301F)Readily biodegradable.

12.3. Bioaccumulative potential

Component:	Reaction mass of ethylbenzene and xylene
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Bioaccumulation

Result : log K_{ow} 3,49 (30 °C; pH 5 - 8) (OECD Test Guideline 117)
: Low bioaccumulative potential

12.4. Mobility in soil

Component:	Reaction mass of ethylbenzene and xylene
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Mobility

Water : Floats on water.
Air : Evaporates quickly.
Soil : Adsorbs slowly into soil.

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : 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

Data for the product

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Endocrine Disrupting Properties

12.7. Other adverse effects

Cleaner 6810

Data for the product

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

14.1. UN number or ID number

1307

14.2. UN proper shipping name

ADR : XYLENES
RID : XYLENES
IMDG : XYLENES

14.3. Transport hazard class(es)

ADR-Class : 3
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code) 3; F1; 30; (D/E)

RID-Class : 3
(Labels; Classification Code; Hazard Identification Number) 3; F1; 30

IMDG-Class : 3
(Labels; EmS) 3; F-E, S-D

Cleaner 6810

14.4. Packaging group

ADR : III
RID : III
IMDG : III

14.5. Environmental hazards

Environmentally hazardous according to ADR : no
Environmentally hazardous according to RID : no
Marine Pollutant according to IMDG-Code : no

14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Data for the product

Germany. Technical Guidelines for the Prevention of Air Pollution (TA-Luft) : 5.2.5; Organic hazardous air pollutants.

Germany. List of Substances That Are Not Water-Endangering, AwSV of 21 April 2017, UBA, Banz AT, as amended : WGK 2: obviously hazardous to water: 206

German Störfallverordnung : Falls under the German StörfallV. P5c* (*This applies for normal storage conditions. Please check hazard categories P5a and P5b for storage conditions/ processing conditions under pressure or in cases of high temperature.)

Other regulations : Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG). Take note of the national regulations on the protection of young people at work.
This product, delivered to the European Economic Area, is compliant with Regulation (EC) 1907/2006 (REACH) as every substance/monomer it is composed of is excluded from

Cleaner 6810

regulation or exempted from registration or have been registered in the supply chain.
Please note, that REACH requirements still might apply to import, re-import or specific uses.

Component:	Reaction mass of ethylbenzene and xylene
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EU. Chemicals Subject : ; The substance/mixture does not fall under this legislation.
to Export Notification:
Annex 1, Part 1,
Regulation 649/2012/EU
on export and import of
dangerous chemicals, as
amended

EU. REACH, Annex XVII, : Point Nos.: , 3; Listed
Restrictions on
manufacture, placing on
the market and use of
certain dangerous
substances,
1907/2006/EC, as
amended

Point Nos.: , 40; Listed

Component:	xylene	CAS-No. 1330-20-7
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Notification status

xylene:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	215-535-7
ENCS (JP)	YES	(3)-3
ENCS (JP)	YES	(3)-60
IECSC	YES	
INSQ	YES	
ISHL (JP)	YES	(3)-3
ISHL (JP)	YES	(3)-60
JEX (JP)	YES	(3)-3
KECI (KR)	YES	97-1-275
KECI (KR)	YES	KE-35427
NZIOC	YES	HSR000983
ONT INV	YES	
PICCS (PH)	YES	
TCSI	YES	
TH INV	YES	2902.44
TH INV	YES	55-1-01448
TSCA	YES	
VN INV	YES	

Cleaner 6810

Component:	ethylbenzene	CAS-No. 100-41-4
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Notification status

ethylbenzene:

Regulatory List	Notification	Notification number
AICS	YES	
DCS (JP)	YES	(3)-60
DCS (JP)	YES	(3)-28
DSL	YES	
EINECS	YES	202-849-4
ENCS (JP)	YES	(3)-28
ENCS (JP)	YES	(3)-60
IECSC	YES	
INSQ	YES	
ISHL (JP)	YES	(3)-28
ISHL (JP)	YES	(3)-60
JEX (JP)	YES	(3)-28
KECI (KR)	YES	KE-13532
NZIOC	YES	HSR001151
ONT INV	YES	
PICCS (PH)	YES	
TCSI	YES	
TH INV	YES	55-1-00064
TH INV	YES	2902.60
TSCA	YES	
VN INVL	YES	

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SPM	Synthetic Polymer Microparticles

Cleaner 6810

SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INVL	Vietnam. National Chemical Inventory
vPvB	very persistent and very bioaccumulative

Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

|| Indicates updated section.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Cleaner 6810

No.	Short title	REACH Auth. No./ REACH AuthAppC. No.	Main User Group (SU)	Sector of Use (SU)	Product Category (PC)	Process Category (PROC)	Environmental Release Category (ERC)	Article Category (AC)	Specified
1	Distribution of substance	NA	3	8, 9	NA	1, 2, 3, 4, 8a, 8b, 9, 15	1, 7	NA	ES670
2	Formulation & (re)packing of substances and mixtures	NA	3	10	NA	1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15	2	NA	ES681
3	Use in rubber production and processing	NA	3	10	NA	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 13, 14, 15, 21	1, 4, 6d	NA	ES936
4	Use in polymer processing	NA	3	10	NA	1, 2, 3, 4, 8a, 8b, 16	7	NA	ES7851
5	Use in polymer processing	NA	22	NA	NA	1, 2, 8a, 8b, 14, 21	8a, 8d	NA	ES7853
6	Use in coatings	NA	3	NA	NA	1, 2, 3, 4, 5, 7, 8a, 8b, 10, 13, 14, 15	4	NA	ES721
7	Use in coatings	NA	21	NA	1, 4, 8, 9a, 9b, 9c, 15, 18, 23, 24, 31, 34	NA	8a, 8d	NA	ES1293
8	Use in coatings	NA	22	NA	NA	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19	8a, 8d	NA	ES801
9	Use in cleaning agents	NA	3	NA	NA	1, 2, 3, 4, 7, 8a, 8b, 10, 13	4	NA	ES804
10	Use in cleaning agents	NA	21	NA	3, 4, 8, 9a, 24, 35, 38	NA	8a, 8d	NA	ES1369
11	Use in cleaning agents	NA	22	NA	NA	1, 2, 3, 4, 8a, 8b, 10, 11, 13	8a, 8d	NA	ES808
12	Use in binder and release agents	NA	3	8, 9	NA	1, 2, 3, 4, 6, 7, 8b, 10, 13, 14	4	NA	ES818
13	Use in binder and release agents	NA	22	NA	NA	1, 2, 3, 4, 6, 8a, 8b, 10, 11, 14	8a, 8d	NA	ES822
14	Use in agrochemicals	NA	21	NA	12, 27	NA	8a, 8d	NA	ES1385
15	Use in agrochemicals	NA	22	NA	NA	1, 2, 4,	8a, 8d	NA	ES826

Cleaner 6810

						8a, 8b, 11, 13			
16	Use in fuel	NA	3	10	NA	1, 2, 3, 8a, 8b, 16	7	NA	ES828
17	Use in fuel	NA	22	NA	NA	1, 2, 3, 8a, 8b, 16	9a, 9b	NA	ES830
18	Use in fuel	NA	21	NA	13	NA	9a, 9b	NA	ES7825
19	Use as lubricants	NA	3	10	NA	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17	4, 7	NA	ES7888
20	Use as lubricants	NA	21	NA	1, 24, 31	NA	8a, 8d, 9a, 9b	NA	ES7835
21	Use as lubricants	NA	22	NA	NA	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20	8a, 8d, 9a, 9b	NA	ES7890
22	Use as Functional Fluids	NA	3	8, 9	NA	1, 2, 3, 4, 8a, 8b, 9	7	NA	ES7863
23	Use as Functional Fluids	NA	21	NA	16, 17	NA	9a, 9b	NA	ES7833
24	Use as Functional Fluids	NA	22	NA	NA	1, 2, 3, 8a, 20	9a, 9b	NA	ES7867
25	Use in laboratories	NA	3	10	NA	10, 15	2, 4	NA	ES930
26	Use in laboratories	NA	22	NA	NA	10, 15	8a	NA	ES932
27	Use in oil and gas field drilling and production operations	NA	3	NA	NA	1, 2, 3, 4, 8a, 8b	4	NA	ES938
28	Use in oil and gas field drilling and production operations	NA	22	NA	NA	1, 2, 3, 4, 8a, 8b	8d	NA	ES7876
29	Use as mining chemicals	NA	3	8, 9	NA	1, 2, 3, 4, 5, 8b, 9	4	NA	ES7847
30	Use in explosives	NA	3	8, 9	NA	1, 2, 3, 4, 8a, 8b, 15	2	NA	ES7861

Cleaner 6810

31	Manufacture of substance	NA	3	NA	NA	1, 2, 3, 4, 8a, 8b, 15	1, 4	NA	ES541
32	Use as an intermediate	NA	3	NA	NA	1, 2, 3, 4, 8a, 8b, 15	6a	NA	ES556
33	Polymer production	NA	3	10	NA	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 14, 21	4	NA	ES7893
34	Use in road and construction applications	NA	22	NA	NA	8a, 8b, 9, 10, 11, 13	8d, 8f	NA	ES7874