

WAXOYL AG

4015 Basel

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****WAXOYL Wheel Cleaner 21****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Rim cleaner

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company WAXOYL AG
 Oberwilerstrasse 98
 4015 Basel / SWITZERLAND
 Phone 0041-61-28177 94
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 Homepage www.waxoyl.com
 E-mail info@waxoyl.ch

Address enquiries to

Technical information info@waxoyl.ch
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Skin Corr. 1A: H314 Causes severe skin burns and eye damage.
 Met. Corr. 1: H290 May be corrosive to metals.
 Eye Dam. 1: H318 Causes serious eye damage.

2.2 Label elements**Hazard pictograms****Signal word**

DANGER

Contains:

Fluorosilicic acid
 Sulphuric acid
 Isotridecanol, ethoxylated
 Hydrochloric acid

Hazard statements

H314 Causes severe skin burns and eye damage.
 H290 May be corrosive to metals.

Precautionary statements

P280 Wear protective gloves / protective clothing / eye protection / face protection.
 P260 Do not breathe vapours / spray.
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER / doctor.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P406 Store in corrosive resistant container with a resistant inner liner.

Cleaner, 648/2004/CE, contains:

< 5% non-ionic surfactants
 < 5% anionic surfactant
 fragrances

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2.3 Other hazards

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
5 - <15	Fluorosilicic acid
	CAS: 16961-83-4, EINECS/ELINCS: 241-034-8, EU-INDEX: 009-011-00-5
	GHS/CLP: Skin Corr. 1B: H314
5 - <10	Sulphuric acid
	CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8, Reg-No.: 01-2119458838-20-XXXX
	GHS/CLP: Skin Corr. 1A: H314 - Met. Corr. 1: H290
1 - <10	(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value)
	CAS: 34590-94-8, EINECS/ELINCS: 252-104-2, Reg-No.: 01-2119450011-60-XXXX
5 - <10	Hydrochloric acid
	CAS: 7647-01-0, EINECS/ELINCS: 231-595-7, EU-INDEX: 017-002-01-X, Reg-No.: 01-2119484862-27-XXXX
	GHS/CLP: Skin Corr. 1B: H314 - STOT SE 3: H335 - Met. Corr. 1: H290
1 - 5	2-Butoxyethanol
	CAS: 111-76-2, EINECS/ELINCS: 203-905-0, EU-INDEX: 603-014-00-0, Reg-No.: 01-2119475108-36-XXXX
	GHS/CLP: Acute Tox. 4: H302 H312 H332 - Eye Irrit. 2: H319 - Skin Irrit. 2: H315
1 - <3	Isotridecanol, ethoxylated
	CAS: 69011-36-5, EINECS/ELINCS: 500-241-6, Reg-No.: 01-2119976362-32-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315 - Aquatic Chronic 3: H412
1 - <2	Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative
	CAS: 85536-14-7, EINECS/ELINCS: 287-494-3, Reg-No.: 01-2119490234-40-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1C: H314 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Remove person to fresh air and keep comfortable for breathing.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Consult a doctor immediately.

Ingestion

Consult a doctor immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Product is caustic.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media** foam, dry powder, water spray jet, carbon dioxide**Extinguishing media that must not be used** Full water jet.**5.2 Special hazards arising from the substance or mixture**

Risk of formation of toxic pyrolysis products.

Irritant gases/vapours.

Hydrogen fluoride (HF).

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Wear full protective suit.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. acid binder).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Use only in well-ventilated areas.

Do not eat, drink, smoke or take drugs at work.

Use barrier skin cream.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original tightly closed container.

Provide acid-resistant floor.

Prevent penetration into the ground.

Do not store with alkalis.

Do not store together with food and animal food/diet.

Keep container in a well-ventilated place.

Keep container tightly closed.

Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Substance
Fluorosilicic acid
CAS: 16961-83-4, EINECS/ELINCS: 241-034-8, EU-INDEX: 009-011-00-5
Long-term exposure: 2,5 mg/m ³ , EU
Sulphuric acid
CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8, Reg-No.: 01-2119458838-20-XXXX
Long-term exposure: 0,05 mg/m ³ , mist; The mist is defined as the thoracic fraction
Hydrochloric acid
CAS: 7647-01-0, EINECS/ELINCS: 231-595-7, EU-INDEX: 017-002-01-X, Reg-No.: 01-2119484862-27-XXXX
Long-term exposure: 1 ppm, 2 mg/m ³ , gas and aerosol mists
Short-term exposure (15-minute): 5 ppm, 8 mg/m ³
2-Butoxyethanol
CAS: 111-76-2, EINECS/ELINCS: 203-905-0, EU-INDEX: 603-014-00-0, Reg-No.: 01-2119475108-36-XXXX
Long-term exposure: 25 ppm, 123 mg/m ³ , Sk, BMGV
Short-term exposure (15-minute): 50 ppm, 246 mg/m ³
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value)
CAS: 34590-94-8, EINECS/ELINCS: 252-104-2, Reg-No.: 01-2119450011-60-XXXX
Long-term exposure: 50 ppm, 308 mg/m ³ , Sk

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Fluorosilicic acid
CAS: 16961-83-4, EINECS/ELINCS: 241-034-8, EU-INDEX: 009-011-00-5
Eight hours: 2,5 mg/m ³
Sulphuric acid
CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8, Reg-No.: 01-2119458838-20-XXXX
Eight hours: 0,05 mg/m ³
Hydrochloric acid
CAS: 7647-01-0, EINECS/ELINCS: 231-595-7, EU-INDEX: 017-002-01-X, Reg-No.: 01-2119484862-27-XXXX
Eight hours: 5 ppm, 8 mg/m ³
Short-term (15-minute): 10 ppm, 15 mg/m ³
2-Butoxyethanol
CAS: 111-76-2, EINECS/ELINCS: 203-905-0, EU-INDEX: 603-014-00-0, Reg-No.: 01-2119475108-36-XXXX
Eight hours: 20 ppm, 98 mg/m ³ , H
Short-term (15-minute): 50 ppm, 246 mg/m ³
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value)
CAS: 34590-94-8, EINECS/ELINCS: 252-104-2, Reg-No.: 01-2119450011-60-XXXX
Eight hours: 50 ppm, 308 mg/m ³ , H

DNEL

Substance
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
Industrial, inhalative, Long-term - systemic effects: 12 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 170 mg/kg bw/day.
Industrial, inhalative, Long-term - local effects: 12 mg/m ³ .

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general population, oral, Long-term - systemic effects: 0,85 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 85 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 3 mg/m ³ .
Hydrochloric acid, CAS: 7647-01-0
Industrial, inhalative, Acute - local effects: 15 mg/m ³ .
Industrial, inhalative, Long-term - local effects: 8 mg/m ³ .
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value), CAS: 34590-94-8
Industrial, inhalative, Long-term - systemic effects: 308 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 283 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 37,2 mg/m ³ .
general population, oral, Long-term - systemic effects: 36 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 121 mg/kg bw/day.
2-Butoxyethanol, CAS: 111-76-2
Industrial, inhalative, Acute - systemic effects: 663 mg/m ³ .
Industrial, dermal, Acute - systemic effects: 89 mg/kg bw/d.
Sulphuric acid, CAS: 7664-93-9
Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ .
Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ .
Isotridecanol, ethoxylated, CAS: 69011-36-5
Industrial, inhalative, Long-term - systemic effects: 294 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 2080 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 25 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 87 mg/m ³ .
general population, dermal, Long-term - systemic effects: 1250 mg/kg bw/day.

PNEC

Substance
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
soil, 35 mg/kg.
sediment (seawater), 0,287 mg/kg.
sediment (freshwater), 0,287 mg/kg.
sewage treatment plants (STP), 3,43 mg/l.
seawater, 0,0287 mg/l.
freshwater, 0,287 mg/l.
Hydrochloric acid, CAS: 7647-01-0
freshwater, 0,036 mg/l.
seawater, 0,036 mg/l.
sewage treatment plants (STP), 0,036 mg/l.
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value), CAS: 34590-94-8
sediment (freshwater), 70,2 mg/kg.
freshwater, 19 mg/l.
sewage treatment plants (STP), 4168 mg/l.
sediment (seawater), 7,02 mg/kg.
seawater, 1,9 mg/l.
soil, 2,74 mg/kg.
2-Butoxyethanol, CAS: 111-76-2
soil, 2,8 mg/kg.
seawater, 8,8 mg/l.
sewage treatment plants (STP), 463 mg/l.
sediment, 8,14 mg/kg.
Sulphuric acid, CAS: 7664-93-9

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sewage treatment plants (STP), 8,8 mg/l.
seawater, 0,00025 mg/l.
sediment (freshwater), 0,002 mg/kg dw.
sediment (seaater), 0,002 mg/kg dw.
freshwater, 0,0025 mg/l.
Isotridecanol, ethoxylated, CAS: 69011-36-5
sewage treatment plants (STP), 1,4 mg/l.
sediment (freshwater), 0,604 mg/kg.
sediment (seaater), 0,0604 mg/kg.
seawater, 0,0074 mg/l.
freshwater, 0,074 mg/l.
soil, 0,1 mg/kg.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles. (EN 166:2001) Safety glasses. (EN 166:2001)
Hand protection	0,4mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Acid-resistant protective clothing.
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Do not inhale gases/vapours/aerosols.
Respiratory protection	Breathing apparatus in the event of aerosol or mist formation. Multi-purpose filter ABEK. (DIN EN 14387)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	liquid
Color	yellowish
Odor	characteristic
Odour threshold	not determined
pH-value	strongly acidic
pH-value [1%]	1,6
Boiling point [°C]	>85
Flash point [°C]	>61
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,2 (20 °C / 68,0 °F)
Bulk density [kg/m ³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity**10.1 Reactivity**

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with base metals, with evolution of hydrogen.
Reactions with alkalis (lyes).

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Alkalies
Various metals.

10.6 Hazardous decomposition products

Hydrogen fluoride (HF).

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product
ATE-mix, inhalative, > 20 mg/l 4h.
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.
Substance
Fluorosilicic acid, CAS: 16961-83-4
LD50, oral, Rat: 125 mg/kg bw (IUCLID).
LC50, inhalative, Rat: 1,11 mg/L (1h) (IUCLID).
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
LD50, oral, Rat: 1350 mg/kg.
Hydrochloric acid, CAS: 7647-01-0
LD50, dermal, Rabbit: > 5010 mg/kg.
LD50, oral, Rabbit: 900 mg/kg.
LC50, inhalativ (gas), Rat: 40989 ppm/5min.
LC50, inhalative, Rabbit: 4,2 - 4,7 mg/l 1h.
LC50, inhalativ (gas), Rat: 4701 ppm/30min.
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value), CAS: 34590-94-8
LD50, oral, Rat: 5135 mg/kg.
LD50, dermal, Rabbit: 13000 - 14000 mg/kg.
LC50, inhalative, Rat: > 500 mg/l (7 h).
2-Butoxyethanol, CAS: 111-76-2
LD50, dermal, Rabbit: 400 mg/kg.
LD50, oral, Rat: 1480 mg/kg.
LC50, inhalative, Rat: 1 - 5 mg/l (4 h).
Sulphuric acid, CAS: 7664-93-9
LD50, oral, Rat: 2140 mg/kg (OECD TG 401).
LD50, inhalative, Rat: 0,375 mg/l (OECD TG 403 aerosols).
Isotridecanol, ethoxylated, CAS: 69011-36-5
LD50, dermal, Rabbit: > 2000 mg/kg.
LD50, oral, Rat: > 2000 mg/kg.

Serious eye damage/irritation	Strongly corrosive.
Skin corrosion/irritation	Strongly corrosive.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Specific target organ toxicity — single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity — repeated exposure	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproduction toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
General remarks	

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. The classification as corrosive is due to the extreme pH.

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SECTION 12: Ecological information**12.1 Toxicity**

Substance
Fluorosilicic acid, CAS: 16961-83-4
LC50, (48h), <i>Leuciscus idus</i> : 190 mg/L (IUCLID).
EC0, (96h), <i>Scenedesmus quadricauda</i> (alga): 10 mg/L (IUCLID).
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivative, CAS: 85536-14-7
LC50, (96h), <i>Cyprinus carpio</i> : 1-10 mg/l.
EC50, (48h), <i>Daphnia magna</i> : 1-10 mg/l.
EC50, (72h), <i>Scenedesmus subspicatus</i> : 10-100 mg/l.
Hydrochloric acid, CAS: 7647-01-0
LC50, (96h), <i>Lepomis macrochirus</i> : 24,6 mg/l.
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value), CAS: 34590-94-8
LC50, (96h), <i>Pimephales promelas</i> : > 10000 mg/l.
EC50, (48h), <i>Daphnia magna</i> : 1919 mg/l.
EC50, (96h), <i>Selenastrum capricornutum</i> : > 969 mg/l.
2-Butoxyethanol, CAS: 111-76-2
LC50, (96h), <i>Oncorhynchus mykiss</i> : 1700 mg/l.
EC50, (24h), <i>Daphnia magna</i> : 1800 mg/l.
EC50, (72h), <i>Selenastrum capricornutum</i> : 911 mg/l.
Sulphuric acid, CAS: 7664-93-9
LC50, (96h), <i>Lepomis macrochirus</i> : 16 - 28 mg/l.
EC50, (48h), <i>Daphnia magna</i> : > 100 mg/l (OECD 202).
IC50, (72h), <i>Desmodesmus subspicatus</i> : > 100 mg/l (OECD 201).
Isotridecanol, ethoxylated, CAS: 69011-36-5
LC50, (96h), <i>Leuciscus idus</i> : 1 - 10 mg/l.
EC50, (48h), <i>Daphnia magna</i> : 1 - 10 mg/l.
EC50, (72h), <i>Desmodesmus subspicatus</i> : 1 - 10 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
Biological degradability	The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

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12.6 Other adverse effects

Harmful effect due to pH shift.

No classification on the basis of the calculation procedure of the preparation directive.

Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
For recycling, consult manufacturer.

Waste no. (recommended)

060106*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110*

SECTION 14: Transport information**14.1 UN number**

Transport by land according to
ADR/RID 1760

Inland navigation (ADN) 1760

Marine transport in accordance with
IMDG 1760

Air transport in accordance with IATA 1760

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14.2 UN proper shipping name

Transport by land according to ADR/RID

Corrosive liquid, n.o.s. (Sulfuric acid, Fluorosilicic acid)

- Classification Code

C9

- Label



- ADR LQ

1 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN)

Corrosive liquid, n.o.s. (Sulfuric acid, Fluorosilicic acid)

- Classification Code

C9

- Label



Marine transport in accordance with IMDG

Corrosive liquid, n.o.s. (Sulfuric acid, hexafluorosilicic acid)

- EMS

F-A, S-B

- Label



- IMDG LQ

1 I

Air transport in accordance with IATA

Corrosive liquid, n.o.s. (Sulfuric acid, hexafluorosilicic acid)

- Label



14.3 Transport hazard class(es)

Transport by land according to ADR/RID

8

Inland navigation (ADN)

8

Marine transport in accordance with IMDG

8

Air transport in accordance with IATA

8

14.4 Packing group

Transport by land according to ADR/RID

II

Inland navigation (ADN)

II

Marine transport in accordance with IMDG

II

Air transport in accordance with IATA

II

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14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not determined

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

TRANSPORT-REGULATIONS DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- **Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- **VOC (1999/13/CE)** 11,4 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H412 Harmful to aquatic life with long lasting effects.

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H335 May cause respiratory irritation.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (Calculation method)
 Met. Corr. 1: H290 May be corrosive to metals. (On basis of test data)
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

Modified position

SECTION 2 been added: Eye Dam. 1
 SECTION 2 been added: P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 SECTION 2 been added: P406 Store in corrosive resistant container with a resistant inner liner.
 SECTION 2 been added: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 SECTION 2 been added: P310 Immediately call a POISON CENTER / doctor.
 SECTION 2 been added: P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
 SECTION 2 been added: P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 SECTION 2 been added: P260 Do not breathe vapours / spray.
 SECTION 2 been added: P280 Wear protective gloves / protective clothing / eye protection / face protection.
 SECTION 4 been added: Remove person to fresh air and keep comfortable for breathing.
 SECTION 5 been added: Cool containers at risk with water spray jet.
 SECTION 5 been added: Hydrogen fluoride (HF).
 SECTION 11 been added: The classification as corrosive (kin Corr. 1A - H314) is due to the extreme pH.

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