

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

1.1 Product identifier

Primer 140

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

1.2.1 Relevant uses

Primer
Adhesion mediator

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Ramsauer GmbH & Co KG
Sarstein 17
4822 Bad Goisern / H. / AUSTRIA
Phone +43(0)6135 8205-0
Fax +43(0)6135 8205-250
Homepage www.ramsauer.at
E-mail office@ramsauer.at

Address enquiries to

Technical information

office@ramsauer.at

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body






Call NHS 111 or a doctor

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Flam. Liq. 2: H225 Highly flammable liquid and vapour.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
STOT SE 3: H336 May cause drowsiness or dizziness.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.
Eye Dam. 1: H318 Causes serious eye damage.
Skin Irrit. 2: H315 Causes skin irritation.
Repr. 2: H361d Suspected of damaging the unborn child.

2.2 Label elements

	The product is required to be labelled in accordance with regulation CLP.	
Hazard pictograms	    	
Signal word	DANGER	
Contains:	Alkanes, C7-10-iso- Titanium tetrabutanolate Toluene	
Hazard statements	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H318 Causes serious eye damage. H315 Causes skin irritation. H361d Suspected of damaging the unborn child.	
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapours. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves / protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331 Do NOT induce vomiting. 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. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/national regulation.	

2.3 Other hazards

Physico-chemical hazards	Contact with moisture liberates 1-Butanol and Ethanol.
Environmental hazards	Does not contain any PBT or vPvB substances. Contains no ingredients with endocrine-disrupting properties.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
>75	Alkanes, C7-10-iso- CAS: 90622-56-3, EINECS/ELINCS: 292-458-5, Reg-No.: 01-2119471305-42-XXXX GHS/CLP: Flam. Liq. 2: H225 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411 - Asp. Tox. 1: H304 - STOT SE 3: H336
<10	Titanium tetrabutanolate CAS: 5593-70-4, EINECS/ELINCS: 227-006-8, Reg-No.: 01-2119967423-33-XXXX GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - STOT SE 3: H336
3 - <5	Toluene CAS: 108-88-3, EINECS/ELINCS: 203-625-9, EU-INDEX: 601-021-00-3, Reg-No.: 01-2119471310-51-XXXX GHS/CLP: Flam. Liq. 2: H225 - Repr. 2: H361d - Asp. Tox. 1: H304 - STOT RE 2: H373 - Skin Irrit. 2: H315 - STOT SE 3: H336
<2	Tetraethyl silicate CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332 - Eye Irrit. 2: H319 - STOT SE 3: H335

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**

Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Consult a doctor immediately.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Headache
Irritant effects
Risk of serious damage to eyes.
If swallowed or in the event of vomiting, risk of product entering the lungs.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide.
Water spray jet.
Dry powder.
Foam.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus.

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

Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.

Ensure adequate ventilation.

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

High risk of slipping due to leakage/spillage of product.

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.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up with absorbent material (e.g. sand).

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.

Vacuuming in situ required.

Keep away from all sources of ignition - Refrain from smoking.

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

Risk of explosion if the liquid enters the drains.

Ground/bond container and receiving equipment.

Apparates and equipments must be conform in accordance to standard of storage and handling of flammable products.

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

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

Use barrier skin cream.

Remove contaminated soaked clothing immediately and dispose of safely.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Keep only in original container.

Prevent penetration into the ground.

Provide floor with bunding.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

Protect from atmospheric moisture and water.

7.3 Specific end use(s)

See product use, SECTION 1.2

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

Substance
Toluene
CAS: 108-88-3, EINECS/ELINCS: 203-625-9, EU-INDEX: 601-021-00-3, Reg-No.: 01-2119471310-51-XXXX
Long-term exposure: 50 ppm, 191 mg/m ³ , Sk
Short-term exposure (15-minute): 100 ppm, 384 mg/m ³
Alkanes, C7-10-iso-
CAS: 90622-56-3, EINECS/ELINCS: 292-458-5, Reg-No.: 01-2119471305-42-XXXX
Long-term exposure: 1200 mg/m ³
Tetraethyl silicate
CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX
Long-term exposure: 10 ppm, 85 mg/m ³ , ACGIH
Ethanol
CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX
Long-term exposure: 1000 ppm, 1920 mg/m ³
Butan-1-ol
CAS: 71-36-3, EINECS/ELINCS: 200-751-6, EU-INDEX: 603-004-00-6
Long-term exposure: 50 ppm, Sk
Short-term exposure (15-minute): 50 ppm, 154 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Toluene
CAS: 108-88-3, EINECS/ELINCS: 203-625-9, EU-INDEX: 601-021-00-3, Reg-No.: 01-2119471310-51-XXXX
Eight hours: 50 ppm, 192 mg/m ³ , H
Short-term (15-minute): 100 ppm, 384 mg/m ³
Tetraethyl silicate
CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX
Eight hours: 5 ppm, 44 mg/m ³

DNEL

Substance
Tetraethyl silicate, CAS: 78-10-4
Industrial, inhalative, Acute - systemic effects, 85 mg/m ³
Industrial, dermal, Acute - systemic effects, 12,1 mg/kg bw/d
Industrial, inhalative, Acute - local effects, 85 mg/m ³
Industrial, dermal, Long-term - systemic effects, 12,1 mg/kg bw/d
Industrial, inhalative, Long-term - local effects, 85 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 85 mg/m ³
general population, inhalative, Long-term - local effects, 25 mg/m ³
general population, inhalative, Acute - systemic effects, 25 mg/m ³
general population, inhalative, Acute - local effects, 25 mg/m ³
general population, dermal, Acute - systemic effects, 8,4 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 8,4 mg/kg bw/d

general population, inhalative, Long-term - systemic effects, 25 mg/m ³
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Alkanes, C7-10-iso-, CAS: 90622-56-3

Industrial, dermal, Long-term - systemic effects, 773 mg/kg bw/day
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Industrial, inhalative, Long-term - systemic effects, 2 035 mg/m ³

general population, inhalative, Long-term - systemic effects, 608 mg/m ³

general population, dermal, Long-term - systemic effects, 699 mg/kg bw/day
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general population, oral, Long-term - systemic effects, 699 mg/kg bw/day
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Toluene, CAS: 108-88-3

Industrial, inhalative, Acute - systemic effects, 384 mg/m ³

Industrial, dermal, Long-term - systemic effects, 384 mg/kg bw/day
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Industrial, inhalative, Long-term - local effects, 192 mg/m ³
--

Industrial, inhalative, Acute - local effects, 384 mg/m ³
--

Industrial, inhalative, Long-term - systemic effects, 192 mg/m ³

general population, dermal, Long-term - systemic effects, 226 mg/kg bw/day
--

general population, inhalative, Long-term - systemic effects, 56,5 mg/m ³
--

general population, inhalative, Long-term - local effects, 56,5 mg/m ³

general population, oral, Long-term - systemic effects, 8,13 mg/kg bw/day

general population, inhalative, Acute - systemic effects, 226 mg/m ³

general population, inhalative, Acute - local effects, 226 mg/m ³
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Titanium tetrabutanolat, CAS: 5593-70-4

Industrial, inhalative, Long-term - systemic effects, 127 mg/m ³

general population, oral, Long-term - systemic effects, 3,75 mg/kg bw/day

general population, dermal, Long-term - systemic effects, 37,5 mg/kg bw/day

general population, inhalative, Long-term - systemic effects, 152 mg/m ³

PNEC

Substance

Tetraethyl silicate, CAS: 78-10-4

sediment (seawater), 0,083 mg/kg dw

freshwater, 0,192 mg/l

seawater, 0,0192 mg/l

sediment, 0,18 mg/kg dw

sediment (seawater), 0,018 mg/kg

sediment (freshwater), 0,83 mg/kg dw

soil, 0,05 mg/kg dw

sewage treatment plants (STP), 4000 mg/l
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sediment (freshwater), 0,18 mg/kg

Toluene, CAS: 108-88-3

freshwater, 0,68 mg/l

soil, 2,89 mg/kg soil dw

seawater, 0,68 mg/l

sewage treatment plants (STP), 13,61 mg/l

sediment (freshwater), 16,39 mg/kg sediment dw
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sediment (seawater), 16,39 mg/kg sediment dw
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Titanium tetrabutanolat, CAS: 5593-70-4

freshwater, 80 µg/L

soil, 16,8 µg/kg soil dw

sediment (seawater), 6,9 µg/kg sediment dw
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sediment (freshwater), 68,7 µg/kg sediment dw

sewage treatment plants (STP), 65 mg/L
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seawater, 8 µg/L

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	0,7 mm Viton, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Solvent-resistant protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. 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.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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

Physical state	liquid
Color	yellowish
Odor	characteristic
Odour threshold	not determined
pH-value	ca. 7
pH-value [1%]	not applicable
Boiling point [°C]	116 - 142
Flash point [°C]	3 (ISO 13736)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	0,9 Vol.-%
Upper explosion limit	7,0 Vol.-%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	5,0 (25°C)
Density [g/cm ³]	0,76 (DIN 51757) (20 °C / 68,0 °F)
Relative density	0,76 (DIN 51757)
Bulk density [kg/m ³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	1 mm ² /s (20°C) (DIN 51562)
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	ca. 370
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

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 water.

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Reactions with acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

Water

Reactions with strong acids and alkalies.

10.6 Hazardous decomposition products

Contact with moisture liberates 1-Butanol and Ethanol.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity** Based on available data, the classification criteria are not met.

Product
ATE-mix, oral, >5000 mg/kg bw
Substance
Tetraethyl silicate, CAS: 78-10-4
LD50, oral, Rat, > 2500 mg/kg (OECD TG 423)
NOAEL, oral, Rat, 10 mg/kg (28 d) (OECD TG 422)
Alkanes, C7-10-iso-, CAS: 90622-56-3
LD50, oral, Rat, 7100 - 7800 mg/kg bw
Toluene, CAS: 108-88-3
LD50, oral, Rat, 5580 mg/kg bw
Titanium tetrabutanolate, CAS: 5593-70-4
LD50, oral, Rat, 2000 mg/kg bw
NOAEL, oral, Rat, 125 mg/kg bw/day

Acute dermal toxicity Based on available data, the classification criteria are not met.

Substance
Alkanes, C7-10-iso-, CAS: 90622-56-3
LD50, dermal, Rabbit, 2200 - 2500 mg/kg bw
Toluene, CAS: 108-88-3
LD50, dermal, Rabbit, 5000 mg/kg bw

Acute inhalational toxicity Based on available data, the classification criteria are not met.

Product
ATE-mix, inhalation (vapour), >20 mg/L (4 h)
Substance
Tetraethyl silicate, CAS: 78-10-4
LC50, inhalative, Rat, 10 - 16 mg/l (OECD TG 403)
Alkanes, C7-10-iso-, CAS: 90622-56-3
LC50, inhalative, Rat, 4240 - 4450 ppm (4h)
Toluene, CAS: 108-88-3
LC50, inhalative, Rat, 25,7 - 30 mg/L (4h)
Titanium tetrabutanolate, CAS: 5593-70-4
NOAEL, inhalative, Rat, 2,35 mg/L

Serious eye damage/irritation Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Risk of serious damage to eyes.
Calculation method

Skin corrosion/irritation Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.
Irritant
Calculation method

Respiratory or skin sensitisation Does not contain a relevant substance that meets the classification criteria.

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are fulfilled.
Toxicological data of complete product are not available.

	Vapours may cause drowsiness and dizziness. Calculation method
Specific target organ toxicity — repeated exposure	Based on available data, the classification criteria are not met. Toxicological data of complete product are not available. Calculation method
Mutagenicity	Does not contain a relevant substance that meets the classification criteria.
Reproduction toxicity	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Suspected of damaging the unborn child. Calculation method
Carcinogenicity	Does not contain a relevant substance that meets the classification criteria.
Aspiration hazard	Based on the available information, the classification criteria are fulfilled. $v < 20,5 \text{ mm}^2/\text{s}$ (40 °C) May be fatal if swallowed and enters airways. On basis of test data
General remarks	Toxicological data of complete product are not available.

11.2 Information on other hazards

Endocrine disrupting properties	Contains no ingredients with endocrine-disrupting properties.
Other information	none

SECTION 12: Ecological information**12.1 Toxicity**

Substance
Tetraethyl silicate, CAS: 78-10-4
LC50, (96h), Brachidanio rerio, > 245 mg/l (OECD TG 203)
EC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD TG 201)
EC50, (48h), Daphnia magna, > 75 mg/l (OECD TG 202)
NOEC, (96h), Brachidanio rerio, > 245 mg/l (OECD TG 203)
NOEC, (48h), Daphnia magna, > 75 mg/l (OECD TG 202)
NOEC, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD TG 201)
Alkanes, C7-10-iso-, CAS: 90622-56-3
LC50, (96h), fish, 110 µg/L
EC50, (48h), Crustacea, 400 µg/L
EL50, (72h), Algae, 10 - 30 mg/L
NOELR, (28d), fish, 778 µg/L
Toluene, CAS: 108-88-3
LC50, (48h), Crustacea, 3,78 mg/L
LC50, (96h), fish, 5,5 mg/L
EC10, (168h), Crustacea, 740 µg/L
Titanium tetrabutanolate, CAS: 5593-70-4
LC50, (96h), fish, 1,74 - 2,3 g/L
EC50, (72h), Algae, 225 mg/L
EC50, (48h), Crustacea, 1,3 g/L
EC10, (96h), Algae, 134 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

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.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

none

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.

Waste no. (recommended)

080111*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances
150102

SECTION 14: Transport information

14.1 UN number or ID number








Transport by land according to ADR/RID 1993

Inland navigation (ADN) 1993

Marine transport in accordance with IMDG 1993

Air transport in accordance with IATA 1993

14.2 UN proper shipping name

Transport by land according to ADR/RID	Flammable liquid, n.o.s. (contains Isoalkanes)
- Classification Code	F1
- Label	 
- ADR LQ	1 I
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D/E)
Inland navigation (ADN)	Flammable liquid, n.o.s. (contains Isoalkanes)
- Classification Code	F1
- Label	 
Marine transport in accordance with IMDG	Flammable liquid, n.o.s. (contains Isoalkanes)
- EMS	F-E, S-E
- Label	 
- IMDG LQ	1 I
Air transport in accordance with IATA	Flammable liquid, n.o.s. (contains Isoalkanes)
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	3 (N)
Inland navigation (ADN)	3 (N)
Marine transport in accordance with IMDG	3
Air transport in accordance with IATA	3

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

14.5 Environmental hazards

Transport by land according to ADR/RID yes

Inland navigation (ADN) yes

Marine transport in accordance with IMDG MARINE POLLUTANT

Air transport in accordance with IATA yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not determined

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

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

- VOC (2010/75/CE) >75 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 3)**

H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H361d Suspected of damaging the unborn child.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
H315 Causes skin irritation.
H225 Highly flammable liquid and vapour.

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
 ATE = acute toxicity estimate
 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
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 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
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 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**

Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (On basis of test data)
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 Repr. 2: H361d Suspected of damaging the unborn child. (Calculation method)

Modified position

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 6 been added: Use personal protective equipment (protective gloves, safety glasses, protective clothing).

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 11 deleted: 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.

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 12 deleted: The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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