Revision date: 15 Nov 2023 Version: 4 Print date: 15 Nov 2023



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

1.1. Product identifier

Trade name/designation:

RAVENOL Racing Brake Fluid R 325+

Article No.:

1350604

UFI:

7QHH-QMWX-70QH-HTT5

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

brake fluids

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Ravensberger Schmierstoffvertrieb GmbH

Produktsicherheit Jöllenbecker Str. 2 33824 Werther Germany

Telephone: +49 5203 9719 0 **Telefax:** +49 5203 9719 40 E-mail: kontakt@ravenol.de Website: www.ravenol.de

E-mail (competent person): sdb@ravenol.de

1.4. Emergency telephone number

24 hr. emergency phone number, 24h: +49 700 24 112 112 (Contract ID: RAV) / +1 872 5888271 (Contract ID: RAV)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
	H361d: Suspected of damaging the unborn child.	Calculation method.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] **Hazard pictograms:**



GHS08 Health hazard

Signal word: Warning



Revision date: 15 Nov 2023 Version: 4 Print date: 15 Nov 2023

Hazard components for labelling:

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

Hazard statements	for health hazards
H361d	Suspected of damaging the unborn child.

Supplemental hazard information		
EUH208	Contains Oxirane, 2-methyl-, polymer with oxirane, bis(2-aminopropyl) ether. May produce an	
	allergic reaction.	

Precautionary statements			
P101	If medical advice is needed, have product container or label at hand.		
P102	Keep out of reach of children.		

Precautionary statements Prevention		
P280	Wear protective gloves and eye/face protection.	

Precautionary statements Response			
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/Emergency telephone number.		
P308 + P313	IF exposed or concerned: Get medical advice/attention.		

Precautionary stat	ements Storage
P405	Store locked up.

Precautionary statements Disposal		
P501	Dispose of contents/container to an appropriate recycling or disposal facility.	

* 2.3. Other hazards

Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 30989-05-0 EC No.: 250-418-4 REACH No.: 01-2119462824-33-XXXX	tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate Repr. 2 (H361d) Warning	30 - < 90 weight-%
CAS No.: 65605-36-9	Oxirane, 2-methyl-, polymer with oxirane, bis(2-aminopropyl) ether Eye Dam. 1 (H318), Skin Corr. 1B (H314), Skin Sens. 1 (H317) Danger	0 – < 1 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. Consult a doctor immediately.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately.

After eve contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately.

Revision date: 15 Nov 2023 Version: 4 Print date: 15 Nov 2023



Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

Suspected of damaging the unborn child.

Contains Oxirane, 2-methyl-, polymer with oxirane, bis(2-aminopropyl) ether. May produce an allergic reaction.

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

Treat symptomatically. Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

* 5.1. Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

Carbon dioxide (CO2)

Extinguishing powder

alcohol resistant foam

Use water spray jet to protect personnel and to cool endangered containers.

Unsuitable extinguishing media:

Full water jet

* 5.2. Special hazards arising from the substance or mixture

During heating or in case of fire, toxic gases is possible.

The formation of combustible vapours is possible at temperatures above: Flash point When hot, product develops flammable vapours.

Hazardous combustion products:

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), Gases/vapours, toxic During heating or in case of fire, toxic gases is possible.

* 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

* 5.4. Additional information

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

* 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment. Special danger of slipping by leaking/spilling product.

Protective equipment:

Wear personal protection equipment (refer to section 8).

Emergency procedures:

Eliminate all ignition sources if safe to do so. Remove persons to safety. Provide adequate ventilation.

6.1.2. For emergency responders

Personal protection equipment:

Use personal protection equipment.

* 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

* 6.3. Methods and material for containment and cleaning up

For containment:

Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids

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

Revision date: 15 Nov 2023 Version: 4 Print date: 15 Nov 2023



For cleaning up:

Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information:

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

Personal protection equipment: see section 8

* 6.5. Additional information

Clear spills immediately. Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

st 7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination.

Fire prevent measures:

No special fire protection measures are necessary.

Environmental precautions:

Shafts and sewers must be protected from entry of the product.

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

* 7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. storage temperature 15-30 °C

Requirements for storage rooms and vessels:

No special measures are necessary.

Hints on storage assembly:

not required

Storage class (TRGS 510, Germany): 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Store in a cool dry place. Keep away from heat.

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

8.1.2. Biological limit values

No data available



Revision date: 15 Nov 2023 Version: 4 Print date: 15 Nov 2023

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4	29.1 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4	7.2 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4	8.3 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4	4.1 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4	211.2 μg/L	① PNEC aquatic, freshwater
tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4	21.12 μg/L	① PNEC aquatic, marine water
tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4	100 mg/L	① PNEC sewage treatment plant
tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4	0.76 mg/kg bw/day	① PNEC sediment, freshwater
tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4	0.076 mg/kg bw/day	① PNEC sediment, marine water

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment





Eye/face protection:

During transfer: Eye glasses with side protection

Wear eye/face protection. EN 166

Skin protection:

Hand protection

Suitable material: NBR (Nitrile rubber)
Thickness of the glove material: ≥ 0,2 mm

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

RAVENOL Racing Brake Fluid R 325+



Page 6/12

Revision date: 15 Nov 2023 Version: 4 Print date: 15 Nov 2023

Breakthrough time: 480 min

Suitable material: Butyl caoutchouc (butyl rubber) Thickness of the glove material: ≥ 0,3 mm

Breakthrough time: 480 min

Breakthrough times and swelling properties of the material must be taken into consideration.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Tested protective gloves must be worn: EN ISO 374 Suitable protective clothing: Protective clothing

Respiratory protection:

Usually no personal respirative protection necessary.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid Colour: amber

Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method
			② Remark
рН	7 - 8.5	20 °C	
Melting point	< -50 °C		
Freezing point	No data available		
Initial boiling point and boiling range	300 °C		
Flash point	> 120 °C		
Evaporation rate	No data available		
Auto-ignition temperature	> 280 °C		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	1,040 - 1,095 kg/ m ³	20 °C	
Bulk density	not applicable		
Water solubility	miscible		
Partition coefficient: n-octanol/water	1.5	20 °C	
Dynamic viscosity	No data available		
Kinematic viscosity	10 - 15 mm²/s	20 °C	

* 9.2. Other information

Not applicable

SECTION 10: Stability and reactivity

* 10.1. Reactivity

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No known hazardous reactions.

* 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

* 10.4. Conditions to avoid

To avoid thermal decomposition do not overheat.

Revision date: 15 Nov 2023 Version: 4 Print date: 15 Nov 2023



10.5. Incompatible materials

Materials to avoid: Oxidising agent, strong, Strong acid, Alkali (lye), concentrated, Reducing agent, strong

* 10.6. Hazardous decomposition products

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), During heating or in case of fire, toxic gases is possible.

Further information

No information available.

SECTION 11: Toxicological information

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

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4

LD₅₀ oral: >2,000 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rat)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eve damage/irritation:

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

Respiratory or skin sensitisation:

Contains Oxirane, 2-methyl-, polymer with oxirane, bis(2-aminopropyl) ether. May produce an allergic reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

Suspected of damaging the unborn child.

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

Observe risk of aspiration if vomiting occurs.

For viscosity data, see section 9.

Additional information:

No data available

* 11.2. Information on other hazards

Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information:

No data available.



SECTION 12: Ecological information

* 12.1. Toxicity

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4

LC₅₀: 222.2 - <1,010 mg/L 4 d (fish)

LC₅₀: >222.2 mg/L 2 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))

LC₅₀: >222.2 mg/L 3 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))

LC₅₀: >222.2 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))

EC₅₀: 211.2 - <960 mg/L 2 d (crustaceans)

EC₅₀: 224.4 - <1,020 mg/L 3 d (Algae/water plant)

EC₅₀: >224.4 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata))

EC50: >211.2 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC: 224.4 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata))

NOEC: <211.2 mg/L 1 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC: <211.2 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Assessment/classification:

The substance/mixture does not fullfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

* 12.2. Persistence and degradability

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4

Biodegradation: Yes, rapidly

Biodegradation:

Readily biodegradable.

* 12.3. Bioaccumulative potential

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4

Log K_{OW}: < 3

Partition coefficient: n-octanol/water:

1.5 at °C: 20

Accumulation / Evaluation:

No indication of bioaccumulation potential. Log $K_{OW} < 2.0$

* 12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0 EC No.: 250-418-4

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Oxirane, 2-methyl-, polymer with oxirane, bis(2-aminopropyl) ether CAS No.: 65605-36-9

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

* 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

* 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.



13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 01 13 * brake fluids

*: Evidence for disposal must be provided.

Directive 2008/98/EC (Waste Framework Directive)

HP 10 Toxic for reproduction

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)	(ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or	ID number		_
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper ship	ping name		
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport haza	rd class(es)	-	
not relevant	not relevant	not relevant	not relevant
14.4. Packing group		`	
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precau	tions for user		
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

This product is not assigned to a hazard category.

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Störfallverordnung (12. BlmschV)

for substances contained in the product:

This product is not assigned to a hazard category.



Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Remark:

To follow: 5.2.5 Water hazard class

WGK:

1 - slightly hazardous to water

Source:

Self-classification (mixture; calculation rule).

Identification number 436

Technische Regeln für Gefahrstoffe

TRGS 500

TRGS 510

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868 Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195

Seruisgenossenschartliche Regelii (DGOV-Reg

Other regulations, restrictions and prohibition regulations

Zákon č. 67/2010 Z.z., o podmienkach uvedenia chemických látok a chemických zmesí na trh a o zmene

doplnení niektorých zákonov (chemický zákon).

Zákon č. 124/2006 Z. z. o bezpečnosti a ochrane zdravia pri práci a o zmene a doplnení niektorých zákonov.

Zákon NR SR č. 355/2007 Z.z., o ochrane, podpore a rozvoji verejného zdravia a o zmene a doplnení niektorých

zákonov, v znení neskorších predpisov.

Nariadenie vlády SR 471/2011 Z.z., ktorým sa mení nariadenie vlády Slovenskej republiky č. 355/2006 Z.

o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci, Príloha č 1

Zákon č. 79/2015 Z.z. o odpadoch v znení neskorších predpisov.

Vyhláška MV SR č. 96/2004 Z.z., ktorou sa ustanovujú zásady protipožiarnej bezpečnosti pri manipulácii

skladovaní horľavých kvapalín, ťažkých vykurovacích olejov a rastlinných a živočíšnych tukov a olejov. Zákon NR SR č. 137/2010 Z.z. o ovzduší v znení neskorších predpisov.

Zákon č. 319/2013 Z.z. o pôsobnosti orgánov štátnej správy pre sprístupňovanie biocídnych výrobkov na trh a ich

používanie a o zmene a doplnení niektorých zákonov (biocídny zákon).

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

* 15.3. Additional information

Tactile warning according to EN/ISO 11683.

SECTION 16: Other information

* 16.1. Indication of changes

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1.1.	Product identifier
2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
4.3.	Indication of any immediate medical attention and special treatment needed
5.1.	Extinguishing media
5.2.	Special hazards arising from the substance or mixture
5.3.	Advice for firefighters
5.4.	Additional information
6.1.	Personal precautions, protective equipment and emergency procedures
6.2.	Environmental precautions
6.3.	Methods and material for containment and cleaning up



6.5.	Additional information
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
9.2.	Other information
10.1.	Reactivity
10.2.	Chemical stability
10.4.	Conditions to avoid
10.6.	Hazardous decomposition products
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.4.	Mobility in soil
12.6.	Endocrine disrupting properties
13.1.	Waste treatment methods
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.3.	Additional information
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

* 16.2. Abbreviations and acronyms

	•
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

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging

DNEL derived no-effect level

EC₅₀ Effective Concentration 50%

EN European Standard

EWC European Waste Catalogue IBC Intermediate Bulk Container

ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization
ISO International Standards Organisation

KG body weight

LC₅₀ Lethal (fatal) Concentration 50%

LD₅₀ Lethal (fatal) Dose 50%

NFPA National Fire Protection Association NOEC No Observed Effect Concentration

OECD Organisation for Economic Cooperation and Development

PBT persistent and bioaccumulative and toxic

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation and Authorization of Chemicals RID Dangerous goods regulations for transport by rail

TRGS Technische Regeln für Gefahrstoffe

UN United Nations

See overview table at www.euphrac.eu

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3. Key literature references and sources for data

EC 1907/2006 - REACH Regulation

1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006 Regulation (EC) No 1907/2006 (REACH), Annex II

European Chemicals Agency (ECHA), C & L classification and labeling inventory



European Chemicals Agency (ECHA), ECHA CHEM Registered substances
OECD The Global Portal to Information on Chemical Substances (ChemPortal)
Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances

Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances

hazardous to water Rigoletto (catalog substances hazardous to water)

Substance name	Туре	source of supply
tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]	LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
CAS No.: 30989-05-0 EC No.: 250-418-4		Thep.,, certailed opared,

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Reproductive toxicity (Repr. 2)	'	Calculation method.
	unborn child.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361d	Suspected of damaging the unborn child.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

* Data changed compared with the previous version.

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