

Revision date: 23.09.2022
Replacement of version 0001 of 17.11.2020

Version: 0002



**Friedrich W. Derkum
Chemische Fabrik und Handelsgesellschaft mbH**

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

1.1 Product identifier

Trade name **Compass Fluid #39014**
Product number **derk0047**

Unique formula identifier (UFI) in accordance with section 5 of Part A of Annex VIII to Regulation (EC) No 1272/2008:
UFI: F140-Y076-5003-W8GT

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

Appropriate use:
The product is used as a compass fluid to ensure the functionality of the needle.

1.3 Details of the supplier of the safety data sheet

Friedrich W. Derkum Chemische Fabrik und Handelsgesellschaft mbH
An der Packhalle IX/3
D-27572 Bremerhaven
Germany
Telephone: +49-(0)471-9744030 Telefax: +49-(0)471-97440319
e-mail: kontakt@derkum.de
URL: www.derkum.de
e-mail-address of the competent person responsible for this Safety Data Sheet:
info@gefstoff.de

Technical contact:

Friedrich W. Derkum Chemische Fabrik und Handelsgesellschaft mbH
An der Packhalle IX/3, D-27572 Bremerhaven / Germany
Produktsicherheit
Telephone: +49-(0)471-9744030 Telefax: +49-(0)471-97440319

1.4 Emergency telephone number

Gemeinsames Giftinformationszentrum (GGIZ) der Länder Mecklenburg-Vorpommern, Sachsen,
Sachsen-Anhalt und Thüringen – Giftnotruf Erfurt
– 24 hour emergency service –
Telephone: +49-(0)361-730730

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute Tox. 4; H302
STOT RE 2; H373

Trade name:	Compass Fluid #39014	
Company/Undertaking:	Friedrich W. Derkum Chemische Fabrik und Handelsgesellschaft mbH An der Packhalle IX/3, D-27572 Bremerhaven / Germany	Revision date: 23.09.2022
Telephone:	+49-(0)471-9744030	
Product number:	derk0047	

2.2 Label elements

Hazard pictogram(s):



Signal word(s):

Warning

Product identifier:

Compass Fluid #39104
contains ethanediol

Hazard statements:

H302

Harmful if swallowed.

H373

May cause damage to kidneys through prolonged or repeated exposure if swallowed.

Precautionary statements:

P260

Do not breathe mist/vapours/spray.

P301 + P312

IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

P330

Rinse mouth.

Supplemental hazard information: None

Remarks:

The product is only intended for professional use and will not be supplied to the general public. Therefore the packaging does not have to be fitted with a tactile warning of danger.

2.3 Other hazards

Ethanediol may be absorbed through the skin. The product is classified as slightly hazardous to water.

The mixture does not contain any substances classified as PBT/vPvB or any substances having endocrine disrupting properties in concentrations of more or equal than 0.1%.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

REACH registration number:

Ethanediol:

01-2119456816-28-XXXX

Characterisation

The product is an aqueous mixture of ethanediol and further auxiliary agents.

Substances presenting a health/environmental hazard within the meaning of Regulation (EC) No 1272/2008

CAS No	EC No	Identification	% by weight	Classification
107-21-1	203-473-3	ethanediol	45 - 50	Acute Tox. 4; H302 STOT RE 2; H373
3164-85-0	221-625-7	potassium-2-ethylhexanoate	0.6 – 0.8	Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361
19766-89-3	243-283-8	sodium-2-ethylhexanoate	0.1 – 0.3	Repr. 2; H361

See subsection 2.2 for further details. Full text of the hazard statements see Section 16.

Substances for which there are Union workplace exposure limits (see also Section 8.)

No substances.

Additional information

None.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

First aider: Pay attention to self-protection!

Remove contaminated, saturated clothing immediately and wash before reuse.

In case of inhalation

Remove affected person to fresh air.

In the event of symptoms take medical treatment.

In case of contact with skin

In case of contact with skin wash off immediately with plenty of water and soap.

In the event of symptoms take medical treatment.

In case of contact with eyes

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

Remove contact lenses, if present and easy to do.

In case of ingestion

If swallowed, rinse mouth with water (only if the person is conscious).

Let water be drunk in little sips (dilution effect).

Do not induce vomiting. Take medical treatment immediately.

4.2 Most important symptoms and effects, both acute and delayed

After swallowing: damage to health.

May be irritating to respiratory tract, gastrointestinal tract, eyes and skin.

Possible health disorders: nausea, vomiting, dizziness, cramps, cardiac arrhythmias breathing difficulties, liver and kidney damage and nerve damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry extinguishing powder, carbon dioxide (CO₂), water spray jet.

Unsuitable extinguishing media

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, carbon dioxide, methane, formaldehyde, nitrogen oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus.

Suppress gas/vapours/mists with water spray jet.

Do not inhale explosion and combustion gases.

Cool endangered containers with water spray jet out of sheltered position.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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SECTION 6: Accidental release measures

6.1 *Personal precautions, protective equipment and emergency procedures*

For non-emergency personnel

Use personal protective clothing. Avoid contact with eyes and skin.
Ensure adequate ventilation. Wear breathing apparatus if exposed to vapours.
Keep away from unprotected people.

For emergency responders

For suitable fabric for personal protective clothing see Section 8.

6.2 *Environmental precautions*

Do not discharge into the drains, the aquatic environment and soil.

6.3 *Methods and material for containment and cleaning up*

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Dispose of absorbed material in accordance with the regulations.
Send in suitable containers for recovery or disposal.
Clean contaminated floors and objects thoroughly with plenty of water observing environmental regulations.

6.4 *Reference to other sections*

For personal protective equipment see also Section 8.
For disposal considerations see also Section 13.

SECTION 7: Handling and storage

7.1 *Precautions for safe handling*

Advice on safe handling

Keep container tightly closed; open and handle with care.
Always close containers tightly after the removal of product and store in an upright position.
Do not inhale vapours/mist/aerosols.
Avoid contact with eyes and skin.
Comply with the minimum standards in accordance with TRGS 500¹.
Moreover, comply with the protective measures in accordance with TRGS 401¹.

Inhalation

In designing the work process the model solutions of the Control Guidance Sheets 100¹, La-101¹ and 110¹ must be taken into consideration regardless on the amount of possibly released product.

Advice on general occupational hygiene

Do not inhale vapours/mist/aerosols. Avoid contact with eyes and skin.
At work do not eat, drink, smoke or take drugs.
Remove contaminated, saturated clothing immediately and wash before reuse.
Wash hands before breaks and after work. Use barrier skin cream.

7.2 *Conditions for safe storage, including any incompatibilities*

Advice on protection against fire and explosion

Keep away from sources of ignition. Do not smoke.

Requirements for storage rooms and vessels

Keep only in the original container tightly closed and in in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with explosive agents, strong oxidising agents, acids and alkalis.
The information about joint storage given in Table 12 of TRGS 510¹ must be observed.

Further information on storage conditions

Suitable container material: polyethylene, polypropylene, stainless steel.
Protect against direct sunlight and heat.

Storage class (for Germany only)

LGK 10 in accordance with TRGS 510¹.

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7.3 Specific end use(s)

The product is only intended for the uses mentioned under subsection 1.2.
 The application recommendations of the manufacturer must be observed.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

CAS number	Identification	Limit values	Remarks
107-21-1	ethanediol	20 ppm / 52 mg/m ³ 40 ppm / 104 mg/m ³	EU-exposure limit value in accordance with Directive (EC) 2000/39 8 hours short term may be absorbed through the skin Different national limit values – eight hours Austria Czech Republic Denmark Finland Germany Ireland The Netherlands Poland Sweden Switzerland United Kingdom Different national limit values – short term Austria Czech Republic Denmark Finland Germany Poland Sweden Switzerland

DNEL values**Additional limit values for ethanediol in accordance with the registration dossier:**

worker, long-term exposition: inhalation, local effect: 35 mg/m³
 worker, long-term exposition: dermal, systemic effect: 106 mg/kg_{bw}/d
 general population, long-term exposition: inhalation, local effect: 7 mg/m³
 general population, long-term exposition: dermal, systemic effect: 53 mg/kg_{bw}/d

Additional limit values for potassium-2-ethylhexanoate in accordance with the registration dossier:

worker, long-term exposition: inhalation, systemic effect: 41.98 mg/m³
 worker, long-term exposition: dermal, systemic effect: 5.95 mg/kg_{bw}/d
 general population, long-term exposition: inhalation, systemic effect: 10.35 mg/m³
 general population, long-term exposition: dermal, systemic effect: 2.98 mg/kg_{bw}/d
 general population, long-term exposition: oral, systemic effect: 2.98 mg/kg_{bw}/d

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(continued from 8.1 Control parameters)

Additional limit values for sodium-2-ethylhexanoate in accordance with the registration dossier:

worker, long-term exposition: inhalation, systemic effect:	14 mg/m ³
worker, long-term exposition: dermal, systemic effect:	2 mg/kg _{bw} /d
general population, long-term exposition: inhalation, systemic effect:	3.5 mg/m ³
general population, long-term exposition: dermal, systemic effect:	1 mg/kg _{bw} /d
general population, long-term exposition: oral, systemic effect:	1 mg/kg _{bw} /d

PNEC values

Additional limit values for ethanediol in accordance with the registration dossier:

aquatic, fresh water:	10 mg/l
aquatic, fresh water, intermittent release:	10 mg/l
aquatic, marine water:	1 mg/l
aquatic, marine water, intermittent release:	10 mg/l
aquatic, sewage treatment plant:	199.5 mg/l
sediment, fresh water:	37 mg/kg _{dw}
sediment, marine water:	3.7 mg/kg _{dw}
soil environment:	1.53 mg/kg _{dw}

Additional limit values for potassium-2-ethylhexanoate in accordance with the registration dossier:

aquatic, fresh water:	0.36 mg/l
aquatic, fresh water, intermittent release:	0.493 mg/l
aquatic, marine water:	0.036 mg/l
aquatic, sewage treatment plant:	71.7 mg/l
sediment, fresh water:	6.37 mg/kg _{dw}
sediment, marine water:	0.637 mg/kg _{dw}
soil environment:	1.06 mg/kg _{dw}

Additional limit values for sodium-2-ethylhexanoate in accordance with the registration dossier:

aquatic, fresh water:	0.36 mg/l
aquatic, fresh water, intermittent release:	0.493 mg/l
aquatic, marine water:	0.036 mg/l
aquatic, sewage treatment plant:	71.7 mg/l
sediment, fresh water:	0.301 mg/kg _{dw}
sediment, marine water:	0.03 mg/kg _{dw}
soil environment:	0.058 mg/kg _{dw}

The methods for measuring chemical agents in workplace atmosphere must meet the general requirements of EN 482 and EN 689.

8.2 Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See also subsection 7.1.

The effectiveness of suitable protective measures must be controlled.

Suitable assessment methods are described in the German TRGS 402¹.

Individual protection measures, such as personal protective equipment

Personal protective equipment needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer/supplier of the personal protective equipment.

Eye/face protection

Tightly fitting safety glasses in accordance with EN 166.

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(continued from 8.2 Exposure controls)

Hand protection:

In case of operations where skin contact is possible, wear suitable solvent-resistant protective gloves.

Suitable protective gloves of:

- butyl rubber; thickness 0.5 mm; breakthrough time \geq 8 h;
- fluoro rubber; thickness 0.7 mm; breakthrough time \geq 8 h;
- polychloroprene; thickness 0.5 mm; breakthrough time \geq 8 h;
- nitrile rubber/nitrile latex; thickness 0.4 mm; breakthrough time \geq 8 h;
- polyvinyl chloride; thickness 0.5 mm; breakthrough time \geq 8 h.

Completely unsuitable:

Protective gloves of natural rubber/natural latex, textile or leather.

Wear cotton undermitten if possible.

Under practical conditions, the maximum wearing period can be significantly lower.

The protective gloves to be used must comply with the specifications of the standard EN 374.

Body protection:

Closed work clothing.

Respiratory protection

In case of inadequate ventilation, and in case of formation of vapours/aerosols, wear respiratory protection.

Suitable respiratory protection, e.g. full mask or mouthpiece with filter A-P2.

The limitations in wearing time according to the DGUV Regel 112-190² (rule of the German employers' liability insurance association) for the use of respirators have to be observed.

Thermal hazards

Not relevant.

Environmental exposure controls

See Section 6.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	colourless	
Odour:	weak inherent odour	
Odour threshold:	no data available	
Melting point/freezing point (°C):	not determined	
Boiling point/initial boiling point/boiling range (°C):	not determined	
Flammability:	combustible	
Lower explosion limit:	no data available	
Upper explosion limit:	no data available	
Flash point (°C), closed cup:	> 111	
Auto-ignition temperature (°C):	no data available	
Decomposition temperature (°C):	no data available	
pH (as supplied) (20°C):	not determined	
Kinematic viscosity (mm ² /s):	no data available	
Solubility in water:	completely miscible	
Soluble in:	no data available	
Partition coefficient: n-octanol/water (log value):	- 1,36 (25°C)	(REACH registration dossier) (ethanediol)
Vapour pressure (20°C) (mbar):	not determined	
Density (g/cm ³) (20°C):	no data available	
Relative vapour density (20°C):	no data available	
Particle characteristics:	not applicable	

9.2 Other information

None.

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SECTION 10: Stability and reactivity

10.1 Reactivity

When heated above the flash point, vapours can form explosive mixtures with air.

10.2 Chemical stability

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Possible hazardous reaction with strong oxidising agents, acids and alkalis.

10.4 Conditions to avoid

Avoid strong heating.

10.5 Incompatible materials

Possible hazardous reaction with strong oxidising agents, acids and alkalis.

10.6 Hazardous decomposition products

When used as intended, no hazardous decomposition products known.
For hazardous combustion products see subsection 5.2.

SECTION 11: Toxicological information

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

The mixture has not been tested.

Acute toxicity

Acute Tox. 4: Harmful if swallowed.

LD50 rat, oral	(mg/kg)	1000.4	(mixture)	(ATE)
		4700	(ethanediol)	(RTECS)
		2043	(potassium-2-ethylhexanoate)	(OECD Test Guideline 401)
		2043	(sodium-2-ethylhexanoate)	(OECD Test Guideline 401)
LD50 rat, dermal	(mg/kg)	> 2000	(potassium-2-ethylhexanoate)	(OECD Test Guideline 402)
		> 2000	(sodium-2-ethylhexanoate)	(OECD Test Guideline 402)
LC50 rat, inhalation	(mg/l/4h)	No data available.		

Skin corrosion/irritation

Skin irritation (rabbit)	Not irritating	(ethanediol)	(REACH registration dossier)
	Category 2	(potassium-2-ethylhexanoate)	(OECD Test Guideline 404)
	Slightly irritating	(sodium-2-ethylhexanoate)	(OECD Test Guideline 404)

Serious eye damage/irritation

Eye irritation (rabbit)	Not irritating	(ethanediol)	(REACH registration dossier)
	Not irritating	(sodium-2-ethylhexanoate)	(OECD Test Guideline 405)

Respiratory or skin sensitisation

The mixture does not contain substances classified as sensitising.

Germ cell mutagenicity

The mixture does not contain substances classified as mutagenic.

Carcinogenicity

The mixture does not contain substances classified as carcinogenic.

Reproductive toxicity

The mixture contains substances classified as toxic for the reproduction in concentrations above the cut-off value but below generic concentration limits triggering a classification.

Specific target organ toxicity (STOT)-single exposure

The mixture does not contain substances classified as being a specific target organ toxicant after single exposure.

Specific target organ toxicity (STOT)-repeated exposure

STOT RE 2: May cause damage to kidneys through prolonged or repeated exposure if swallowed.

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(continued from 11.1 Information on toxicological effects)

Aspiration hazard

The mixture does not contain substances classified as aspiration toxicants.

Symptoms related to the physical, chemical and toxicological characteristics

After swallowing: damage to health.

May be irritating to respiratory tract, gastrointestinal tract, eyes and skin.

Possible health disorders: nausea, vomiting, dizziness, cramps, cardiac arrhythmias breathing difficulties, liver and kidney damage and nerve damage.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

After swallowing: damage to health.

May be irritating to respiratory tract, gastrointestinal tract, eyes and skin.

Possible health disorders: nausea, vomiting, dizziness, cramps, cardiac arrhythmias breathing difficulties, liver and kidney damage and nerve damage.

11.2 Information on other hazards

No data available for the mixture.

Endocrine disrupting properties

The mixture does not contain any substances having endocrine disrupting properties in concentrations of more or equal than 0.1%.

Other information

None.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

96 h LC50	(fish)	> 72860 mg/l	(Pimephales promelas; fathead minnow) (ethanediol) (EPA600/4-90/027)	
		> 100 mg/l	(Oryzias latipes; Japanese ricefish)	
		> 100 mg/l	(potassium-2-ethylhexanoate) (OECD Test Guideline 203) (Oryzias latipes; Japanese ricefish) (sodium-2-ethylhexanoate) (OECD Test Guideline 203)	
7 d NOEC	(fish)	15380 mg/l	(Pimephales promelas; fathead minnow) (ethanediol) (EPA600/4-89/001)	
		48 h EC50	(daphnia)	> 100 mg/l (Daphnia magna) (ethanediol) (OECD Test Guideline 202)
85.4 mg/l		85.4 mg/l	(Daphnia magna) (potassium-2-ethylhexanoate) (Directive 79/831/EEC, Annex V, Part C)	
		85.4 mg/l	(Daphnia magna) (sodium-2-ethylhexanoate) (Directive 79/831/EEC, Annex V, Part C)	
		21 d NOEC	(daphnia)	> 15000 mg/l (Daphnia magna) (ethanediol) (ASTM E47.01, Draft No 1)
25 mg/l		25 mg/l	(Daphnia magna) (potassium-2-ethylhexanoate) (OECD Test Guideline 211)	
		72 h EC50	(algae)	49.3 (Desmodesmus subspicatus) (potassium-2-ethylhexanoate) (DIN 38412, Part 9)
		49.3	(Desmodesmus subspicatus) (sodium-2-ethylhexanoate) (DIN 38412, Part 9)	

Behaviour in sewage works:

The behaviour of the product in sewage treatment plants has not been tested. Do not discharge into the drains.

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12.2 Persistence and degradability

The product has not been tested.

Ethanediol:	readily biodegradable (90 -100% /10 d; OECD Test Guideline 301 A)
Potassium-2-ethylhexanoate:	readily biodegradable (99%/28 d; OECD Test Guideline 301 E)
Sodium-2-ethylhexanoate:	readily biodegradable (99%/28 d; OECD Test Guideline 301 E)
Chemical oxygen demand (COD)	No data are available.
Biochemical oxygen demand (BOD5)	No data are available.
AOX-hint	Not to apply.

12.3 Bioaccumulative potential

The product has not been tested.

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

The mixture does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.

12.6 Endocrine disrupting properties

The mixture does not contain any substances having endocrine disrupting properties in concentrations of more or equal than 0.1%.

12.7 Other adverse effects

Ozone depletion potential	No data are available.
Photochemical ozone creation potential	No data are available.
Global warming potential	No data are available.
The product is classified as slightly hazardous to water.	

Contains according to the formulation following compounds of directives 2006/11/EC and 80/68/EEC:

None.

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

Waste disposal according to official state regulations. Sewage disposal must be avoided. Consult the local waste disposal expert about waste disposal.

Disposal operations/recovery operations according to Directive 2008/98/EC

Disposal operations:	D 10	Incineration on land
Recovery operations:	R 2	Solvent reclamation/regeneration

Properties of waste which render it hazardous in accordance with Annex III of Directive 2008/98/EC

HP 5:	Specific Target Organ Toxicity (STOT / Aspiration Toxicity)
HP 6:	Acute Toxicity

Product/unused product

Recommendation:

Waste disposal corresponding to European Waste Catalogue. Wastes must be classified with respect to their origin and depending on different processing steps.

The waste codes mentioned as follows are only constituted as our recommendations. Referring to the particular case they should be completed or revised.

EC waste code:	07 07 04
Waste notation:	Other organic solvents, washing liquids and mother liquors

Contaminated packaging

Recommendation: Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Recommended cleansing agent: Not available.

Packaging that cannot be cleaned:

EC waste code:	15 01 10
Waste notation:	Packaging containing residues of or contaminated by hazardous substances

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SECTION 14: Transport information

- 14.1 UN number or ID number**
No dangerous good in accordance with the UN Model Regulations (ADR/RID/ADN/IMDG/ICAO/IATA).
- 14.2 UN proper shipping name**
Not relevant.
- 14.3 Transport hazard class(es)**
Not relevant.
- 14.4 Packing group**
Not relevant.
- 14.5 Environmental hazards**
Not relevant.
- 14.6 Special precautions for user**
Not relevant.
- 14.7 Maritime transport in bulk according to IMO instruments**
Not relevant.

SECTION 15: Regulatory information

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

Information regarding relevant Union safety, health and environmental provisions

- The mixture does not contain substances classified as substances of very high concern (SVHC) in accordance with Article 57 or listed in Annex XIV of the regulation (list of substances subject to authorisation) in concentrations of more or equal than 0.1%.
- Conditions of restriction in accordance with Annex XVII of Regulation (EC) No 1907/2006: Entry 3
- Obligation of notification in accordance with Annex VIII to Regulation (EC) No 1272/2008.
Number of the product in the Poison Information Database: 8269861
- Directive 2010/75/EU: 45-50% volatile organic compounds (VOC)
- Observe Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Information regarding national laws/national measures that may be relevant (for Germany only)

Restriction of occupation:	Youth Employment Protection Act has to be observed.
Major-accident Ordinance:	Not relevant
Fire and explosion hazards:	Not relevant
Regulation on clean air (TA Luft):	Number 5.2.5 organic compounds – total carbon ethanediol 45-50%
Water hazard class:	WGK 1 – slightly hazardous to water (deduction of the WGK according to Annex 1 No 5.2 AwSV) ³ The German Ordinance on facilities for handling substances that are hazardous to water (AwSV) has to be observed.
German Ordinance on Hazardous Substances (in accordance with EC-Directive 98/24/EC):	Articles 6, 7, 8, 9, 11, 14 must be observed
Technical Rules for Hazardous Substances ¹ :	TRGS 400, 401, 500, 510, 555, 600, 900
Rules of the employers' liability insurance association ² :	DGUV Regel 112-189, 112-190, 112-192, 112-195
Classification in accordance with the easy-to-use workplace control scheme for hazardous substances of the Federal Institute for Occupational Safety and Health, version 2.2, 2014 ⁴ : inhalation:	hazard group B

15.2 Chemical safety assessment

No chemical safety assessment has been carried out the mixture.

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SECTION 16: Other information

Keeping (restrictions) Article 8 paragraphs 5, 6 and 7 of the German Ordinance on Hazardous Substances has to be observed. (only for Germany)

Supply to industry user professional user, the general public

Full text of the hazard statements referred to under sections 2 and 3 of the Safety Data Sheet

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to kidneys through prolonged or repeated exposure if swallowed.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN:	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR:	Accord relatif au transport international des marchandises dangereuses par route
AOX:	adsorbable organically bound halogens
ASTM:	American Society for Testing and Materials
ATE:	acute toxicity estimate (Schätzwert akute Toxizität)
AwSV:	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water)
BfR:	Bundesinstitut für Risikobewertung (Federal Institute for Risk Assessment)
BOD:	biochemical oxygen demand
C&L Inventory:	Database of classification & labelling information
COD:	chemical oxygen demand
DFG:	Deutsche Forschungsgemeinschaft (German Research Foundation)
DIN:	Deutsches Institut für Normung (German Institute for Standardization)
DNEL:	Derived No-Effect Level
DGUV:	Deutsche Gesetzliche Unfallversicherung (German Social Accident Insurance)
ECHA:	European Chemicals Agency
EC:	European Community
EC50:	Half maximal effective concentration
EEC:	Europäische Wirtschaftsgemeinschaft
EPA:	Environmental Protection Agency
EU:	European Union
GHS:	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
IATA-DGR:	International Air Transport Association – Dangerous Goods Regulations
ICAO-TI:	International Civil Aviation Organisation – Technical Instructions
IMDG-Code:	International Maritime Dangerous Goods-Code
IMO:	International Maritime Organization
KBwS:	Kommission Bewertung wassergefährdende Stoffe (Commission for the Evaluation of substances hazardous to waters)
LC50:	Median lethal concentration
LD50:	Median lethal dose
LGK:	Lagerklasse (Storage class)
MARPOL:	International Convention for the Prevention of Marine Pollution from Ships
mg/kg _{bw} /d:	mg per kg body weight per day
mg/kg _{dw} :	mg per kg dry weight
NOEC:	no observed effect level concentration
NOEL:	no observed effect level
NOELR:	no observed effect loading rate
OECD:	Organisation for Economic Co-operation and Development
PBT:	persistent, bioaccumulative and toxic
PNEC:	Predicted No-Effect Concentration
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer
RTECS:	Registry of Toxic Effects of Chemical Substances
SVHC:	Substances of very high concern
TRGS:	Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
UFI:	Unique Formula Identifier
UN:	United Nations
vPvB:	very persistent and very bioaccumulative

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Literature references and sources for data

- ¹ <https://www.baua.de>
² <https://www.arbeitssicherheit.de>
³ <https://www.umweltbundesamt.de>
⁴ <https://www.baua.de/emkg>

Method used for the classification of the mixture

The classification was undertaken in accordance with the classification criteria of Annex I of Regulation (EC) No 1272/2008.

Changes which have been made to the previous version of the safety data sheet

Revised sections: 1.1, 1.3, 2.2, 2.3, 3.2, 6.1, 7.2, 8.1, 9.1, 11.1, 11.2 (new), 12.1, 12.2, 12.6 (new),
12.7 (former 12.6), 14.1, 14.7, 15.1, 15.2, 16, headers

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.

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