

TGK GmbH

33758 Schloß Holte-Stukenbrock

Date printed 04.02.2025, Revision 03.02.2025

Version 1.0

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

1.1 Product identifier

FIGURO Konturenstift

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

1.2.1 Relevant uses

Ceramic coating

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

TGK GmbH
Helleforthstraße 18-20
33758 Schloß Holte-Stukenbrock / GERMANY
Phone +49 5207 9128 0
Fax +49 5207 9128 40
Homepage www.tgk.de
E-mail tgk@tgk.de

Address enquiries to

Technical information

tgk@tgk.de

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)
Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Company

+49 5207 9128 98 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Flam. Liq. 2: H225 Highly flammable liquid and vapour.
Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

Hazard pictograms



Signal word

DANGER

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P280 Wear eye protection / face protection.
P337+P313 If eye irritation persists: Get medical advice / attention.
P403+P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

Human health dangers

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

Environmental hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other hazards

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

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SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
0,1 - < 10	2-(2-Butoxyethoxy)ethanol
	CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
	GHS/CLP: Eye Irrit. 2: H319
0,1 - < 10	Ethanol
	CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319
	SCL [%]: >= 50: Eye Irrit. 2: H319

Comment on component parts

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

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.
In the event of symptoms seek medical treatment.

Ingestion

Rinse out mouth and give plenty of water to drink.
Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

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

risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
Cool containers at risk with water spray jet.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.

Ensure adequate ventilation.

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

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

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.

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

Take precautionary measures against static discharges.

Vapours can form an explosive mixture with air.

Ignitable mixtures can be formed in the empty container.

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

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Keep only in original container.

Do not store together with oxidizing agents.

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

Keep container tightly closed.

Keep container in a well-ventilated place.

Protect from heat/overheating and from sun.

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

Recommended storage temperature: room temperature.

Storage class (TRGS 510)

Storage class 3 (TRGS 510)

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 DE (TRGS 900)

Substance
2-(2-Butoxyethoxy)ethanol
CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
Exposure limit: 10 ppm, 67 mg/m ³ , DFG, EU, Y, 11
Factor: 1,5(I)
Glycerol
CAS: 56-81-5, EINECS/ELINCS: 200-289-5
Exposure limit: 200 E mg/m ³ , DFG, Y
Factor: 2(I)
Ethanol
CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX
Exposure limit: 200 ppm, 380 mg/m ³ , DFG, Y
Factor: 4 (II)

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES
2-(2-Butoxyethoxy)ethanol
CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
Eight hours: 10 ppm, 67,5 mg/m ³
Short-term (15-minute): 15 ppm, 101,2 mg/m ³

DNEL

Substance
Ethanol, CAS: 64-17-5
Industrial, inhalative (vapor), Long-term - systemic effects, 380 mg/m ³
Industrial, dermal, Long-term - systemic effects, 8238 mg/kg bw/day
general population, inhalative (vapor), Long-term - systemic effects, 114 mg/m ³
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
Industrial, inhalative, Long-term - local effects, 67,5 mg/m ³
Industrial, inhalative, Acute - local effects, 101,2 mg/m ³
general population, oral, Long-term - systemic effects, 6,25 mg/kg bw/day

PNEC

Substance
Ethanol, CAS: 64-17-5
freshwater, 0,96 mg/l
seawater, 0,79 mg/l
sediment (freshwater), 3,6 mg/kg sediment dw
soil, 0,63 mg/kg soil dw
sediment (seawater), 2,9 mg/kg sediment dw
sewage treatment plants (STP), 580 mg/L
oral (food), 0,38 g/kg
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
There are no PNEC values established for the substance.

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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	Safety glasses. (EN 166:2001)
Hand protection	Nitrile butyl rubber (NBR) > 0,4 mm, (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
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.
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	none
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
Form	pasty
Color	According to product specification
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	not determined
Flash point [°C]	14
Flammability	yes
Lower explosion limit	0,9 Vol. %
Upper explosion limit	19 Vol. %
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm³]	not determined
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	soluble
Solubility other solvents	not determined
Partition coefficient n-octanol/water (log value)	not determined
Kinematic viscosity	> 473 mm²/s (20°C) > 411 mm²/s (23°C)
Relative vapour density	not determined
Melting point [°C]	not determined
Auto-ignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined
Particle characteristics	not applicable

9.2 Other information

Solvent-separation test: < 3 %

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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 strong oxidizing agents.

Vapours can form an explosive mixture with air.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

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

Acute oral toxicity

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
Ethanol, CAS: 64-17-5
LD50, oral, Rat, 10470 mg/kg (OECD 401)
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, oral, mouse, 2410 - 5530 mg/kg bw

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
Ethanol, CAS: 64-17-5
LD50, dermal, Rabbit, > 2000 mg/kg (OECD 402)
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, dermal, Rabbit, 2764 mg/kg bw

Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
Ethanol, CAS: 64-17-5
LC50, inhalative, Rat, 117-125 mg/l/4h (OECD 403)

Serious eye damage/irritation

Irritant
Based on the available information, the classification criteria are fulfilled.
Calculation method

Substance
Ethanol, CAS: 64-17-5
Eye, irritant
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
Eye, irritant

Skin corrosion/irritation

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.

Substance
Ethanol, CAS: 64-17-5
dermal, non-irritating
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
dermal, Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.

Substance
Ethanol, CAS: 64-17-5
dermal, non-sensitizing
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
dermal, Guinea pig, OECD 406, non-sensitizing

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Specific target organ toxicity — single exposure

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

Substance
Ethanol, CAS: 64-17-5
NOAEL, oral, mouse, 9400 mg/kg bw/day (subchronic), no adverse effect observed
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
NOAEL, oral, Rat, 250 mg/kg bw/day, The effects observed are not sufficient for classification.
NOAEC, inhalative, 94 mg/m³, The effects observed are not sufficient for classification.

Mutagenicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
oral, mouse, In vivo study, negativ

Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance
Ethanol, CAS: 64-17-5
NOAEL, oral, mouse, 20700 mg/kg bw/day (subchronic), no adverse effect observed
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
NOAEL, oral, Rat, > 1000 mg/kg bw/day, no adverse effect observed

- Development

Substance
Ethanol, CAS: 64-17-5
NOAEC, inhalative, Rat, 30400 mg/m³ (subchronic), no adverse effect observed
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
NOAEL, oral, Rat, > 633 mg/kg bw/day, no adverse effect observed

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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

11.2.2 Other information

none

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SECTION 12: Ecological information

12.1 Toxicity

Substance
Ethanol, CAS: 64-17-5
LC50, (48h), Daphnia magna, 12340 mg/l
LC50, (96h), Oncorhynchus mykiss, 13000 mg/l (OECD 203)
EC50, (48h), Selenastrum capricornutum, 12900 mg/l (OECD 201)
EC50, (72h), Algae, 275 mg/l (OECD 201)
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LC50, (96h), Fish, 1,3 g/L
EC50, (48h), Invertebrates, 100 mg/L
EC50, (4d), Algae, 100 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments No information available.

Behaviour in sewage plant No information available.

Biological degradability No information available.

Substance
Ethanol, CAS: 64-17-5
94%, The product is readily biodegradable.

12.3 Bioaccumulative potential

No information available.

Substance
Ethanol, CAS: 64-17-5
log Pow, -0,31

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

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

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

12.7 Other adverse effects

None known.

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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

Coordinate disposal with the authorities if necessary.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

160305*

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* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID 1170

Inland navigation (ADN) 1170

Marine transport in accordance with IMDG 1170

Air transport in accordance with IATA 1170

14.2 UN proper shipping name

Transport by land according to ADR/RID Ethanol solution

- Classification Code

F1

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (D/E)

Inland navigation (ADN)

Ethanol solution

- Classification Code

F1

- Label



Marine transport in accordance with IMDG

Ethanol solution

- EMS

F-E, S-D

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA Ethanol solution

- Label



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14.3 Transport hazard class(es)

Transport by land according to ADR/RID 3

Inland navigation (ADN) 3

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 III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

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 Maritime transport in bulk according to IMO instruments

not applicable

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SECTION 15: Regulatory information

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

EEC-REGULATIONS

2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex XIV (REACH)

According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation.

- Annex XVII (REACH)

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions. 40, 55, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3

TRANSPORT-REGULATIONS

ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)

NATIONAL REGULATIONS (DE):

Hazardous Substances Ordinance - GefStoffV 21.07.2021; Detergent and Cleaning Agents Act - WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS: 200, 220, 615, 900, 905.

- Water hazard class

1, conf. AwSV, 18.04.2017

- Decree for case of interference, observe limits

yes

- Class. according to TA-Luft

5.2.5.

- Storage class (TRGS 510)

Storage class 3 (TRGS 510)

- Observe employment restrictions for people

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

- VOC (2010/75/CE)

< 10 %

- Other regulations

TRGS 510: Storage of hazardous substances in non-stationary containers
TRGS 430: Gefährdungsbeurteilung und Schutzmaßnahmen
DGUV Information 213-080: Arbeitsschutzmaßnahmen bei Tätigkeiten mit Gefahrstoffen (Merkblatt M 053 der Reihe "Gefahrstoffe")

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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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
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)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Modified position

none

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