

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

Article No.:	01	BRILLANT Kunstharz-Emaillack	
Print date:	19.12.2019	Revision date: 14.12.2019	EN
Version:	8.7	Issue date: 14.12.2019	Page 1 / 10

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

### 1.1. product identifiers

Article No. (manufacturer/supplier)	01
Trade name/designation	BRILLANT Kunstharz-Emaillack

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

#### Relevant identified uses:

Paint to protect surfaces

### 1.3. Details of the supplier of the safety data sheet

#### supplier (manufacturer/importer/downstream user/distributor)

Knuchel Farben AG	
Farben + Lacke	Telephone: +41 (0) 32 636 50 40
Steinackerweg 11	Telefax: +41 (0) 32 636 50 45
CH-4537 Wiedlisbach	

#### Dept. responsible for information:

laboratory Manager	
E-mail (competent person)	info@knuchel.ch

### 1.4. Emergency telephone number

Emergency telephone number	145 (+41 (0)44 251 51 51)
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Warning

##### Hazard statements

H226	Flammable liquid and vapour.
H412	Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial incineration plant.

##### Hazard components for labelling

not applicable

##### Supplemental Hazard information (EU)

EUH208	Contains 2-butanone oxime; Fatty acid C6-C19, cobalt salt; Reaction product of tall oil fatty acid, polyethyleneglycol-hydrogenmaleate and tall oil fatty acid amide. May produce an allergic reaction.
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## 2.3. Other hazards

No information available.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

**Description** solvent-based alkyd resin, containing the following hazardous substances:

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

EC No. CAS No. INDEX No.	REACH No. Designation classification // Remark	Wt %
919-446-0 64742-82-1 649-330-00-2	01-2119458049-33 Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 3 H226	12.5 - 20
918-481-9 64742-48-9 649-327-00-6	01-2119457273-39 Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics Asp. Tox. 1 H304	5 - 10
219-535-8 2457-01-4	01-2119983179-22 Barium bis (2-ethylhexanoate) Acute Tox. 4 H302 / Repr. 2 H361	0.5 - 1
202-496-6 96-29-7 616-014-00-0	01-2119539477-28 2-butanone oxime Carc. 2 H351 / Acute Tox. 4 H312 / Eye Dam. 1 H318 / Skin Sens. 1 H317	0.5 - 1
245-018-1 22464-99-9	Fatty acid C6-C19, zirconium Repr. 2 H361	< 0.5
270-066-5 68409-81-4	Fatty acid C6-C19, cobalt salt Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Repr. 2 H361 / Aquatic Chronic 2 H411	< 0.5
222716-38-3	Reaction product of tall oil fatty acid, polyethyleneglycol-hydrogenmaleate and tall oil fatty acid amide Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / STOT RE 2 H373 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	< 0.5

#### Additional information

Full text of classification: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

#### Unsuitable extinguishing media

strong water jet

### 5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access

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only for authorised persons. Store carefully closed containers upright to prevent any leaks.

## 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

not applicable

#### DNEL:

Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha  
INDEX No. 649-330-00-2 / EC No. 919-446-0 / CAS No. 64742-82-1

DNEL long-term dermal (local), Workers: 44 mg/kg  
DNEL long-term dermal (systemic), Workers: 44 mg/kg  
DNEL acute inhalative (local), Workers: 570 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 570 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 330 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 330 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 26 mg/kg  
DNEL long-term dermal (local), Consumer: 26 mg/kg  
DNEL long-term dermal (systemic), Consumer: 26 mg/kg  
DNEL acute inhalative (local), Consumer: 570 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 71 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 71 mg/m<sup>3</sup>

### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

#### Personal protection equipment

##### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

##### Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

##### Eye/face protection

Wear closely fitting protective glasses in case of splashes.

##### Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

##### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

##### Environmental exposure controls

Do not allow to enter into surface water or drains. 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:

refer to label

##### Odour:

characteristic

##### Odour threshold:

not applicable

##### pH at 20 °C:

not applicable

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<b>Melting point/freezing point:</b>	<b>not applicable</b>
<b>Initial boiling point and boiling range:</b>	<b>162 °C</b> Source: Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha
<b>Flash point:</b>	<b>40 °C</b> Method: DIN 53213
<b>Evaporation rate:</b>	<b>not applicable</b>
<b>flammability</b>	
<b>Burning time (s):</b>	<b>not applicable</b>
<b>Upper/lower flammability or explosive limits:</b>	
<b>Lower explosion limit:</b>	<b>0.7 Vol-%</b>
<b>Upper explosion limit:</b>	<b>6.5 Vol-%</b> Source: Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics
<b>Vapour pressure at 20 °C:</b>	<b>3.7 mbar</b> Source: Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha
<b>Vapour density:</b>	<b>not applicable</b>
<b>Relative density:</b>	
<b>Density at 20 °C:</b>	<b>1.28 g/cm³</b>
<b>Solubility(ies):</b>	
<b>Water solubility (g/L) at 20 °C:</b>	<b>insoluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Auto-ignition temperature:</b>	<b>240 °C</b> Source: Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics
<b>Decomposition temperature:</b>	<b>not applicable</b>
<b>Viscosity at °C:</b>	<b>950 - 1150 mPas</b>
<b>Explosive properties:</b>	<b>not applicable</b>
<b>Oxidising properties:</b>	<b>not applicable</b>
9.2. <b>Other information</b>	
<b>Solid content (%):</b>	<b>76 Wt %</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>24 Wt %</b>
<b>Water:</b>	<b>0 Wt %</b>
<b>Solvent separation test (%):</b>	<b>&lt; 3 Wt % (ADR/RID)</b>

## SECTION 10: Stability and reactivity

- 10.1. **Reactivity**  
No information available.
- 10.2. **Chemical stability**  
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.
- 10.3. **Possibility of hazardous reactions**  
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
- 10.4. **Conditions to avoid** \*  
Hazardous decomposition byproducts may form with exposure to high temperatures.
- 10.5. **Incompatible materials**  
not applicable
- 10.6. **Hazardous decomposition products**  
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

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## SECTION 11: Toxicological information

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

### 11.1. Information on toxicological effects

\*

#### Acute toxicity

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

oral, LD50, Rat: > 15000 mg/kg

dermal, LD50, Rabbit: > 3160 mg/kg

Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha

oral, LD50, Rat: 15000 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rabbit: > 4 mg/kg

inhalative (vapours), LC50, Rat: 13,1 mg/l (4 h)

#### Skin corrosion/irritation; Serious eye damage/eye irritation

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Skin (4 h)

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

eyes

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

Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha

Skin (4 h)

Causes skin irritation.

eyes

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Skin: ; evaluation Based on available data, the classification criteria are not met.

Respiratory system: ; evaluation Based on available data, the classification criteria are not met.

Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha

Skin:

No data available (human)

Respiratory system:

No data available

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Germ cell mutagenicity; evaluation Based on available data, the classification criteria are not met.

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

Reproductive toxicity; evaluation Based on available data, the classification criteria are not met.

Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Lactation

No data available

#### STOT-single exposure; STOT-repeated exposure

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Specific target organ toxicity (single exposure) evaluation Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) evaluation Based on available data, the classification criteria are not met.

Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha

Specific target organ toxicity (single exposure)

May cause respiratory irritation.; May cause drowsiness or dizziness.

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**Aspiration hazard**

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics  
Aspiration hazard; evaluation May be fatal if swallowed and enters airways.

Naphtha (petroleum), hydrosulfurized heavy; Low boilingpoint hydrogen treated naphtha  
Aspiration hazard

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

**Practical experience/human evidence**

Inhalation of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, myosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]  
Do not allow to enter into surface water or drains.

**12.1. Toxicity**

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics  
Fish toxicity, LC50, Pimephales promelas (fathead minnow): 220 mg/l (96 h)  
Daphnia toxicity, LC50, crangon crangon: 4,3 mg/l (96 h)  
Naphtha (petroleum), hydrosulfurized heavy; Low boilingpoint hydrogen treated naphtha  
Fish toxicity, LL50: Oncorhynchus mykiss (Rainbow trout) 10 - 30 mg/l (96 h)  
Method: OECD 203  
Daphnia toxicity, EL50, Daphnia magna (Big water flea) 10 - 22 mg/l (48 h)  
Method: OECD 202  
Algae toxicity, ELb50, Pseudokirchneriella subcapitata 4,1 - 4,6 mg/l (72 h)  
Method: OECD 201

**Long-term Ecotoxicity**

Harmful to aquatic life with long lasting effects.  
Naphtha (petroleum), hydrosulfurized heavy; Low boilingpoint hydrogen treated naphtha  
Daphnia toxicity, EC50: 9 mg/l (48 h)

**12.2. Persistence and degradability**

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics  
Biodegradation: evaluation Not readily biodegradable (according to OECD criteria)  
Naphtha (petroleum), hydrosulfurized heavy; Low boilingpoint hydrogen treated naphtha  
Biodegradation: 74,7 percent (28 d)

**12.3. Bioaccumulative potential**

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics  
Partition coefficient: n-octanol/water:  
No further relevant information available.  
Naphtha (petroleum), hydrosulfurized heavy; Low boilingpoint hydrogen treated naphtha  
Distribution coefficient n-octanol/water (log KOW):  
No data available

**Bioconcentration factor (BCF)**

Naphtha (petroleum), hydrosulfurized heavy; Low boilingpoint hydrogen treated naphtha  
Bioconcentration factor (BCF): 500  
high

**12.4. Mobility in soil**

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics  
soil:  
No further relevant information available.

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Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha  
soil:  
No data available

## 12.5. Results of PBT and vPvB assessment

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

## 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### List of proposed waste codes/waste designations in accordance with EWC

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

#### Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

### 14.1. UN number

UN 1263

### 14.2. UN proper shipping name

Land transport (ADR/RID):

Paint

Sea transport (IMDG):

PAINT

Air transport (ICAO-TI / IATA-DGR):

Paint

### 14.3. Transport hazard class(es)

Land transport (ADR/RID):

KEINE GÜTER DER KLASSE 3

bei Gebinden > 450 l Klasse 3

Sea transport (IMDG)

3

for packages < 30 litres:

Transport in accordance with the provisions of paragraph 2.3.2.5 of the IMDG Code.

Air transport (ICAO-TI / IATA-DGR)

3

### 14.4. Packing group

III

### 14.5. Environmental hazards

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

#### Further information

#### Land transport (ADR/RID)

tunnel restriction code

D/E

#### Sea transport (IMDG)

EmS-No.

F-E, S-E

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## SECTION 15: Regulatory information



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

### EU legislation

#### Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 308

### National regulations

#### Restrictions of occupation

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

## 15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
919-446-0 64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy; Low boilingpoint hydrogen treated naphtha	01-2119458049-33
918-481-9 64742-48-9	Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics	01-2119457273-39
219-535-8 2457-01-4	Barium bis (2-ethylhexanoate)	01-2119983179-22

## SECTION 16: Other information

### Full text of classification in section 3

STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility. Suspected of damaging the unborn child.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

### Classification procedure

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

Flam. Liq. 3	Flammable liquids	On basis of test data.
Aquatic Chronic 3	Hazardous to the aquatic environment	Calculation method.

### Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

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DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

## Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version