

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



Article No.: 0787A  
Print date: 30.07.2021  
Version: 4.1

DWH 311 FL 0787 resin  
Revision date: 21.07.2021  
Issue date: 21.07.2021

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

1.1. **product identifiers**

Article No. (manufacturer/supplier) 0787A  
Trade name/designation DWH 311 FL 0787 resin

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

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

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

DIAMANT Metallplastic GmbH  
Hontzlarstr. 12-14 Telephone: +49(0)2166-98360  
41238 Mönchengladbach Telefax: +49(0)2166-83025

**Department responsible for information:**

Lab  
E-mail (competent person) info@diamant-polymer.de

1.4. **Emergency telephone number**

Emergency telephone number +49(0)2166-98360  
Only available during office hours.

**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].

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
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.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. **Label elements**

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

**Hazard pictograms**



**Danger**

**Hazard statements**

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P261 Avoid breathing vapours.  
P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P310 Immediately call a POISON CENTER or doctor/ physician.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P391 Collect spillage.  
P501 Dispose of contents/container to industrial incineration plant.

**Hazard components for labelling**

1,4-bis(2,3 epoxypropoxy)butane  
(Bisphenole F-epoxy resin)  
Bisphenole A-epoxy resin

**Supplemental hazard information**

EUH205 Contains epoxy constituents. 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** Epoxyresinmix + Fillers

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
500-006-8 9003-36-5	01-2119454392-40-XXXX (Bisphenole F-epoxy resin) Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	25 - 50
231-175-3 7440-66-6 030-001-01-9	01-2119467174-37-XXXX zinc powder - zinc dust (stabilised) Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	20 - 25
500-033-5 25068-38-6 603-074-00-8	01-2119456619-26-XXXX Bisphenole A-epoxy resin Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411 Specific concentration limit (SCL): Eye Irrit. 2 H319 >= 5 / Skin Irrit. 2 H315 >= 5	5 - 10
219-371-7 2425-79-8 603-072-00-7	01-2119494060-45-XXXX 1,4-bis(2,3 epoxypropoxy)butane Acute Tox. 4 H302 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	2,5 - 5
231-784-4 7727-43-7	01-2119491274-35-XXXX Bariumsulphate Substance with a common (EC) occupational exposure limit value.	2,5 - 5
231-072-3 7429-90-5 013-002-00-1	01-2119529243-45-XXXX aluminium powder (stabilised) Water-react. 2 H261 / Flam. Sol. 1 H228	1 - 2,5
215-222-5 1314-13-2 030-013-00-7	01-2119463881-32-XXXX zinc oxide Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	1 - 2,5

**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.

**Following 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 (TRGS 727)".

**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 20 °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:**

Bisphenole A-epoxy resin

Index No. 603-074-00-8 / EC No. 500-033-5 / CAS No. 25068-38-6

DNEL acute dermal, short-term (systemic), Workers: 8,33 mg/kg

DNEL long-term dermal (systemic), Workers: 8,33 mg/kg

DNEL acute inhalative (systemic), Workers: 12,25 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 12,25 mg/m<sup>3</sup>

DNEL short-term oral (acute), Consumer: 0,75 mg/kg

DNEL long-term oral (repeated), Consumer: 0,75 mg/kg

DNEL acute dermal, short-term (systemic), Consumer: 3,571 mg/kg

DNEL long-term dermal (systemic), Consumer: 3,571 mg/kg

DNEL acute inhalative (systemic), Consumer: 0,75 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 0,75 mg/m<sup>3</sup>

(Bisphenole F-epoxy resin)

EC No. 500-006-8 / CAS No. 9003-36-5

DNEL long-term dermal (systemic), Workers: 104,15 mg/kg

DNEL long-term inhalative (systemic), Workers: 29,39 mg/m<sup>3</sup>

1,4-bis(2,3 epoxypropoxy)butane

Index No. 603-072-00-7 / EC No. 219-371-7 / CAS No. 2425-79-8

DNEL long-term dermal (systemic), Workers: 9,26 mg/kg

DNEL long-term inhalative (systemic), Workers: 1,63 mg/m<sup>3</sup>

**PNEC:**

Bisphenole A-epoxy resin

Index No. 603-074-00-8 / EC No. 500-033-5 / CAS No. 25068-38-6

PNEC aquatic, freshwater: 0,006 mg/L

PNEC aquatic, marine water: 0,0006 mg/L

PNEC sediment, freshwater: 0,996 mg/kg

PNEC sediment, marine water: 0,0996 mg/kg

PNEC, soil: 0,196 mg/kg

PNEC sewage treatment plant (STP): 10 mg/L

PNEC Secondary Poisoning: 11 mg/kg

(Bisphenole F-epoxy resin)

EC No. 500-006-8 / CAS No. 9003-36-5

PNEC aquatic, freshwater: 0,003 mg/L

PNEC aquatic, marine water: 0,0003 mg/L

PNEC sediment, freshwater: 0,294 mg/kg

PNEC sediment, marine water: 0,0294 mg/kg

PNEC, soil: 0,237 mg/kg

PNEC sewage treatment plant (STP): 10 mg/L

1,4-bis(2,3 epoxypropoxy)butane

Index No. 603-072-00-7 / EC No. 219-371-7 / CAS No. 2425-79-8

PNEC aquatic, freshwater: 0,024 mg/L

PNEC aquatic, marine water: 0,0024 mg/L

PNEC sediment, freshwater: 0,084 mg/kg

PNEC sediment, marine water: 0,0084 mg/kg

PNEC, soil: 0,0027 mg/kg

**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.

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**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. 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: Nitrile rubber or butyl rubber

Thickness of the glove material > 0,4 mm ; Breakthrough 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:	greyish
Odour:	characteristic
Odour threshold:	not applicable
pH at 20 °C:	not applicable
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	not applicable
Flash point:	200 °C Method: DIN 53213-1

Evaporation rate: not applicable

**flammability**

Burning time: not applicable

**Upper/lower flammability or explosive limits:**

Lower explosion limit: not applicable

Upper explosion limit: not applicable

Vapour pressure at 20 °C: not applicable

Vapour density: not applicable

**Relative density:**

Density at 20 °C: 1,94 g/cm<sup>3</sup>

**Solubility(ies):**

Water solubility at 20 °C: insoluble

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: 260 °C

Source: 1,4-bis(2,3 epoxypropoxy)butane

Decomposition temperature: not applicable

Viscosity at °C: Flüssig

Explosive properties: not applicable

Oxidising properties: not applicable

9.2. Other information

\*

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**Solid content:** 99,93 weight-%  
**solvent content:**  
**Organic solvents:** 0 weight-%  
**Water:** 0 weight-%

#### 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.

#### SECTION 11: Toxicological information

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

##### 11.1. Information on toxicological effects

###### Acute toxicity

Bisphenole A-epoxy resin

oral, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rabbit: 23 mg/kg

aluminium powder (stabilised)

oral, LD50, Rat: 15900 mg/kg

inhalative (Gases), LC50, Rat: > 888 ppmV (4 h)

(Bisphenole F-epoxy resin)

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit

1,4-bis(2,3 epoxypropoxy)butane

oral, LD50, Rat: 1163 mg/kg

dermal, LD50, Rabbit: 1130 mg/kg

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

Causes skin irritation.

Causes serious eye damage.

Bisphenole A-epoxy resin

Skin (4 h)

(Bisphenole F-epoxy resin)

Skin, Skin, Guinea pig

skin corrosion/irritation

###### Respiratory or skin sensitisation

May cause an allergic skin reaction.

Bisphenole A-epoxy resin

Skin:

(Bisphenole F-epoxy resin)

Skin: ; Evaluation Skin sensitisation

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

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

**STOT-single exposure; STOT-repeated exposure**

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

**Aspiration hazard**

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

**Practical experience/human evidence**

Inhaling 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, amyosthenia, 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**

Bisphenole A-epoxy resin

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1,75 mg/L (96 h)

Daphnia toxicity, EC50: 1,8 mg/L (48 h)

Algae toxicity, ErC50: 11 mg/L

(Bisphenole F-epoxy resin)

Fish toxicity, LC50, Leuciscus idus (golden orfe): > 100 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 100 mg/L (48 h)

1,4-bis(2,3 epoxypropoxy)butane

Fish toxicity, LC50: 19,8 mg/L (96 h)

**Long-term Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Bisphenole A-epoxy resin

Fish toxicity, LC50 (96 h)

(Bisphenole F-epoxy resin)

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,3 mg/L (21 d)

Method: OECD 211

1,4-bis(2,3 epoxypropoxy)butane

Daphnia toxicity, EC50, Daphnia magna: 75 mg/L (48 h)

**12.2. Persistence and degradability**

Toxicological data are not available.

**12.3. Bioaccumulative potential**

Toxicological data are not available.

**12.4. Mobility in soil**

Toxicological data are not 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.

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**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 3082

**14.2. UN proper shipping name**

Land transport (ADR/RID):

Environmentally hazardous substance, liquid, n.o.s.  
((zinc powder - zinc dust (stabilised)))

Sea transport (IMDG):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
((zinc powder - zinc dust (stabilised)))

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

Environmentally hazardous substance, liquid, n.o.s.  
((zinc powder - zinc dust (stabilised)))

**14.3. Transport hazard class(es)**

9

**14.4. Packing group**

III

**14.5. Environmental hazards**

Land transport (ADR/RID)

UMWELTGEFÄHRDEND

Marine pollutant

p / (zinc powder - zinc dust (stabilised))

**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

-

in packages <= 5 litres

"Kein Gut der Klasse 9"

**Sea transport (IMDG)**

EmS-No.

F-A, S-F

in packages <= 5 litres

"not restricted 2.10.2.7"

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

in packages <= 5 litres

"Not restricted, as per Special Provision A197"

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

not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC-value (in g/L): 1

**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:**



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500-006-8 9003-36-5	(Bisphenole F-epoxy resin)	01-2119454392-40-XXXX
231-175-3 7440-66-6	zinc powder - zinc dust (stabilised)	01-2119467174-37-XXXX
500-033-5 25068-38-6	Bisphenole A-epoxy resin	01-2119456619-26-XXXX
219-371-7 2425-79-8	1,4-bis(2,3 epoxypropoxy)butane	01-2119494060-45-XXXX
231-784-4 7727-43-7	Bariumsulphate	01-2119491274-35-XXXX
231-072-3 7429-90-5	aluminium powder (stabilised)	01-2119529243-45-XXXX
215-222-5 1314-13-2	zinc oxide	01-2119463881-32-XXXX

**SECTION 16: Other information**

**Full text of classification in section 3**

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
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.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Water-react. 2 / H261	Substances or mixtures which, in contact with water, emit flammable gases	In contact with water releases flammable gases.
Flam. Sol. 1 / H228	flammable solids	Flammable solid.

**Classification procedure**

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

Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Aquatic Chronic 2	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
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

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



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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 section 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