



Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 First edition: 20/01/2005 Last revision: 21/12/2022 Supersedes version of: 13/01/2020 Version: 8.2

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

1.1. Product identifier

Product form : Mixture

: Quick Bond Activator Name : 01.0136.9999 Product number

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Use of the substance or preparation : Quick Bond Activator is an additive to accelerate the curing of Quick Bond.

Quick Bond and Quick Bond Activator are unique products especially designed for the

quick repair and gluing of metals and almost every type of modern synthetic.

1.2.2. Uses advised against

No information available

1.3. Details of the supplier of the safety data sheet

PCS Innotec International NV

Schans 4

BE - 2480 Dessel T.: +32 (0) 14 32 60 01 F.: +32 (0) 14 32 60 12 hse@innotec.eu

Distributor:

Innotec Supplies Ltd.

Unit 25 Glenmore Business Park,

Telford RD

UK - SP2 7GL Salisbury, Wiltshire

T.: +44 (0)1722411744 F.: +44 (0)1722411788 info@innotecworld.com

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

BIG: +32 (0) 14 58 45 45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) no 1272/2008 (CLP)

H222;H229 Aerosol 1 Skin Irrit 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Frequent or prolonged contacts may defat and dry the skin, leading to discomfort and dermatitis. Warning! Pressurized container. Has a narcotizing effect.

2.2. Label elements

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

Hazard pictograms (CLP)







GHS02 GHS07

GHS09

Signal word (CLP) : Danger Contains : Pentane

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Hazard statements (CLP) : H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness. H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use. P261 - Avoid breathing spray, vapours. P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) no 1272/2008 (CLP)
Pentane	CAS number: 109-66-0 EINECS / ELINCS number: 203-692-4 EC Index-No.: 601-006-00-1 REACH-no: 01-2119459286- 30	25 – 50	Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Butane (Contains < 0,1% butadiene (203-450-8))	CAS number: 106-97-8 EINECS / ELINCS number: 203-448-7 REACH-no: 01-2119474691- 32	25 – 50	Flam. Gas 1A, H220 Press. Gas
Naphtha (petroleum), hydrotreated light (Contains < 0,1% benzene (71-43-2))	CAS number: 64742-49-0 EINECS / ELINCS number: 921-024-6 EC Index-No.: 649-328-00-1 REACH-no: 01-2119475514- 35/01-2119475515-33	3 – 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Propane	CAS number: 74-98-6 EINECS / ELINCS number: 200-827-9 REACH-no: 01-2119486944- 21	3 – 10	Flam. Gas 1A, H220 Press. Gas
Methylcyclohexane	CAS number: 108-87-2 EINECS / ELINCS number: 203-624-3 REACH-no: 01-2119556887- 18	1 – 2,5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
N,N-dimethyl-p-toluidine	CAS number: 99-97-8 EINECS / ELINCS number: 202-805-4 EC Index-No.: 612-056-00-9	0,3 – 1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT RE 2, H373 Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : If you feel unwell, seek medical advice (show the label where possible).

Inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable

for breathing.

Skin contact : As a general rule, the product is non-irritating to the skin.

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Ingestion : Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

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

Inhalation : May cause drowsiness or dizziness.

Skin contact : Causes skin irritation.

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

No information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. carbon dioxide (CO2). Alcohol resistant foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions : Prevent fire fighting water from entering the environment. Use water spray or fog for

cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear suitable protective clothing.

6.1.1. For non-emergency personnel

Protective equipment : Refer to protective measures listed in sections 7 and 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

This product and its container must be disposed of in a safe way, and as per local

legislation. Do not flush with aqueous cleansing agents.

Other information : Ensure adequate ventilation.

6.4. Reference to other sections

Stable in handling and storage conditions as recommended in section 7. Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Caution! Container under pressure. Do not pierce or burn, even after use. In use, may form

flammable vapour-air mixture. Do not spray on a naked flame or any incandescent material. Pressurised container. Protect from sunlight and do not expose to temperatures

exceeding 50°C.

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Do not eat, drink

or smoke when using this product. Use personal protective equipment as required. Take precautionary measures against static discharge. Eliminate all ignition sources if safe to do

so.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

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Storage conditions : Do not expose to temperatures exceeding 50 °C. Keep in fireproof place. No smoking.

Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

Technical condition(s) : Store in a well-ventilated place. Impermeable underground / retention basin.

: Keep container tightly closed and dry. Keep only in original container.

Special rules on packaging 7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Pentane (109-66-0)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Pentane	
IOEL TWA	3000 mg/m³	
IOEL TWA [ppm]	1000 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
United Kingdom - Occupational Exposure Limits		
Local name	Pentane	
WEL TWA (OEL TWA) [1]	1800 mg/m³	
WEL TWA (OEL TWA) [2]	600 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Butane (106-97-8)		
United Kingdom - Occupational Exposure Limits		
Local name	Butane	
WEL TWA (OEL TWA) [1]	1450 mg/m³	
WEL TWA (OEL TWA) [2]	600 ppm	
WEL STEL (OEL STEL)	1810 mg/m³	
WEL STEL (OEL STEL) [ppm]	750 ppm	
Remark	Carc (Capable of causing cancer and/or heritable genetic damage. See paragraphs 49–51), (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Methylcyclohexane (108-87-2)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	800 mg/m³	
WEL TWA (OEL TWA) [2]	196 ppm	

8.1.2. Recommended monitoring procedures

No information available

8.1.3. Air contaminants formed

No information available

8.1.4. DNEL and PNEC

Pentane (109-66-0)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	432 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation 3000 mg/m³		
DNEL/DMEL (General population)		
Long-term - systemic effects,oral 214 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation 643 mg/m³		

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Pentane (109-66-0)		
Long-term - systemic effects, dermal	214 mg/kg bodyweight/day	
Naphtha (petroleum), hydrotreated light (64742-	49-0)	
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	773 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2035 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral 699 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation 608 mg/m³		
Long-term - systemic effects, dermal	699 mg/kg bodyweight/day	

8.1.5. Control banding

No information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

In case of inadequate ventilation wear respiratory protection. Gloves. Safety glasses.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

In case of splash hazard: safety glasses

8.2.2.2. Skin protection

Skin protection:

Wear suitable protective clothing.

Hand protection:

Where hand contact with the product may occur, the use of gloves (approved according to the EN374 standard) made from the following materials may provide suitable chemical protection: Nitrile rubber. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available. In this case a lower breakthrough time may be acceptable as long as appropriate glove maintenance and replacement regimes are rigorously followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Depending on model and material, glove thickness generally should be greater than 0,35 mm. Suitability and durability of a glove is dependent on usage (= frequency and duration of contact), chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate breathing apparatus if air renewal not sufficient to maintain dust/vapour under TLV. Recommended: filter type AX/P2

8.2.2.4. Thermal hazards

No information available

8.2.3. Environmental exposure controls

No information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

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Colour : Colourless.

Appearance : Aerosol.

Odour : characteristic.

Odour threshold : Not available

Melting point/melting range : Not available

Freezing point : Not available

Boiling point/range : Not applicable, since the product is an aerosol.

Flammability : Not available
Explosive limits : 0,8 – 10,9 vol %
Lower explosion limit : Not available
Upper explosion limit : Not available

Flash point : Not applicable, since the product is an aerosol.

Auto-ignition temperature : The product is not selfigniting.

Decomposition temperature : Not available pH : Not available Viscosity, kinematic : Not determined

Solubility : Water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : Not available
Vapour pressure at 20 °C : 2100 hPa (20 °C)
Density : Not available
Relative density (water = 1) : 0,608 (20 °C)
Vapour density : Not available
Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits : 0,8 – 10,9 vol %

9.2.2. Other safety characteristics

V.O.C. (V.O.S.) : 602,5 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. In use, may form flammable/explosive vapour-air mixture.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available

10.4. Conditions to avoid

No information available

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

No information available

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Pentane (109-66-0)

LD50/oral/rat > 5000 mg/kg

Butane (106-97-8)

LC50/inhalation/4h/rat 658000 mg/m³

Naphtha (petroleum), hydrotreated light (64742-49-0)

LD50/oral/rat > 5840 mg/kg

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Naphtha (petroleum), hydrotreated light (64742-4	19-0)	
LD50/dermal/rabbit	> 2920 mg/kg	
LC50/inhalation/4h/rat	> 25 mg/l	
Skin corrosion/irritation :	Causes skin irritation.	
Serious eye damage/irritation :	Not classified	
Respiratory or skin sensitisation :	Not classified	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	
Reproductive toxicity :	Not classified	
STOT-single exposure :	May cause drowsiness or dizziness.	
Pentane (109-66-0)		
STOT-single exposure	May cause drowsiness or dizziness.	
Naphtha (petroleum), hydrotreated light (64742-49-0)		
STOT-single exposure	May cause drowsiness or dizziness.	
Methylcyclohexane (108-87-2)		
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure :	Not classified	
N,N-dimethyl-p-toluidine (99-97-8)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard :	Not classified	
Quick Bond Activator		
Viscosity, kinematic	Not determined	

11.2. Information on other hazardsNo information available

SECTION 12: Ecological information

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Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Toxic to aquatic life with long lasting effects.

(Ciliotile)		
Pentane (109-66-0)		
LC50/96h/fish	4,26 mg/l (Oncorhynchus mykiss)	
EC50/48h/daphnia magna	2,7 mg/l	
EC50 - Other aquatic organisms [1]	10,7 mg/l (72h, Pseudokirchneriella subcapitata)	
NOEC (chronic)	7,51 mg/l (72h, Pseudokirchneriella subcapitata)	
Naphtha (petroleum), hydrotreated light (64742-49-0)		
LC50/96h/fish	11,4 mg/l (Oncorhynchus mykiss)	
EC50/48h/daphnia magna	3 mg/l	
EC50 - Other aquatic organisms [1]	30 – 100 mg/l (72h, Pseudokirchneriella subcapitata)	
LOEC (chronic)	0,32 mg/l (21 days, Daphnia magna)	
NOEC (chronic)	0,17 mg/l (21 days, Daphnia magna)	
Methylcyclohexane (108-87-2)		
LC50 - Fish [2]	5 mg/l (48h)	
40.0 December 1.1. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1. 1.		

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

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12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available

12.6. Endocrine disrupting properties

No information available

12.7. Other adverse effects

Other adverse effects

: Toxic to fish.

Additional information

: Toxic to aquatic organisms. Danger to drinking water, even if small amounts leak into the subsoil. Also poisonous for fish and plankton in water bodies. Avoid release to the

environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

: Disposal must be done according to official regulations.

Waste / unused products

: Avoid release to the environment. Should not be landfilled with household waste.

European List of Waste (LoW) code

: 15 01 10* - packaging containing residues of or contaminated by dangerous substances 16 05 08* - discarded organic chemicals consisting of or containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG

14.1. UN number or ID number

· UN 1950 UN-No. (ADR) UN-No. (IMDG) : UN 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS, flammable

Proper Shipping Name (IMDG) : AEROSOLS

Transport document description (ADR) : UN 1950 AEROSOLS, flammable, 2.1, (D)

Transport document description (IMDG) : UN 1950 AEROSOLS, 2

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 2.1 : 2.1

Danger labels (ADR)



IMDG

Transport hazard class(es) (IMDG) : 2.1 Danger labels (IMDG) : 2.1

14.4. Packing group

Packing group (ADR) : Not applicable Packing group (IMDG) : Not applicable

14.5. Environmental hazards Dangerous for the environment

: Yes (Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is

therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.)

Marine pollutant : Yes (IMDG 5.2.1.6.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤

Further information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F Limited quantities (ADR) : 11

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Excepted quantities (ADR) : E0
Transport category (ADR) : 2
Tunnel restriction code : D

Transport by sea

Limited quantities (IMDG) : 1 L
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

V.O.C. (V.O.S.) : 602,5 g/l

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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Indication of changes			
Section	Changed item	Change	Comments
9.2			
11.2.			
12.6			
12.7			
15			
16			

ACGIH = American Conference of Governmental Industrial Hygieniats ADR = Accord européen sur le transport des marchandises dangereuses par Route ATE = Acute Toxicity Estimate CAS = Chemical Abstracts Service CLP = Classification, labelling and packaging CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DMEL = Derived Minimal Effect Level DMEL = Derived No-Effect Level DPD = Dangerous Substance Directive CSD = Dangerous Substance Directive EINECS/ELINCS = European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances. GHS = Globally Harmonized System of Classification and Labelling of Chemicals HTP = Haitallisiksi tunnetut pitoisuudet IATA = International Air Transport Association ICAO = International Air Transport Association ICAO = International Maritime Code for Dangerous Goods IOELV = Indicative Occupational Exposure Limit Value (EU) LC50 = Lethal concentration, 50 percent LEC = Lewer Explosion Limit MAK = Maximale Arbeitsplatzkonzentrationen MAL-kode = Måleteknisk Arbeidshrygiejnisk Luftbehov N.O.S. = Not Otherwise Specified NDS = Najwyższe Dopuszczalne Stężenie NDSCh = Najwyższe Dopuszczalne Stężenie Chwilowe OEL = Occupational Exposure Limits REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals RID = Regiernent International concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail). STEL = Short term exposure limit STOT RE = specific target organ toxicity ripeated exposure		
ADR = Accord européen sur le transport des marchandises dangereuses par Route ATE = Acute Toxicity Estimate CAS = Chemical Abstracts Service CLP = Classification, labelling and packaging CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DMEL = Derived Minimal Effect Level DMEL = Derived No-Effect Level DMEL = Derived No-Effect Level DMEL = Derived No-Effect Level DPD = Dangerous Substance Directive CSD = Dangerous Substance Directive EINECS/ELINCS = European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances. GHS = Globally Harmonized System of Classification and Labelling of Chemicals HTP = Haitallisiksi tunnetut pitoisuudet IATA = International IAT Transport Association ICAO = International Maritime Code for Dangerous Goods IOELV = Indicative Occupational Exposure Limit Value (EU) LC50 = Lethal concentration, 50 percent LEL = Lower Explosion Limit MAK = Maximale Arbeitsplatzkonzentrationen MAL-kode = Maleteknisk Arbeigshrygiejnisk Luftbehov N.O.S. = Not Otherwise Specified NDSCh = Najwyższe Dopuszczalne Stężenie NDSCh = Persistent, bioaccumulative and toxic PRE = Persistent, bioaccumulative and toxic PRE = Persistent, bioaccumulative and toxic PRE = Persistent binecumulative and toxic	Abbreviations and a	
ATE = Acute Toxicity Estimate CAS = Chemical Abstracts Service CLP = Classification, labelling and packaging CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived Minimal Effect Level DNEL = Derived No-Effect Level DPD = Dangerous Preparation Directive DSD = Dangerous Substance Directive EINECS/ELINCS = European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances. GHS = Globally Harmonized System of Classification and Labelling of Chemicals HTP = Haitallisiksi tunnetut pitoisuudet IATA = International Air Transport Association ICAO = International Air Transport Association IDELV = Indicative Occupational Exposure Limit Value (EU) LC50 = Lethal concentration, 50 percent LD50 = Lethal concentration, 50 percent LEL = Lower Explosion Limit MAK = Maximale Arbeitsplatzkonzentrationen MAL-kode = Maleteknisk Arbeitsplatzkonzentrationen MAL-kode = Najwyższe Dopuszczalne Stężenie NDS = Najwyższe Dopuszczalne Stężenie NDSCh = Najwyższe Dopuszczalne Stężenie Chwillowe OEL = Occupational Exposure Limits PBT = Persistent, bioaccumulative and toxic PNEC = Predicted No-Effect Concentration REACH = Registration, Evabuation, Authorisation and Restriction of Chemicals RID = Regisment international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail). STEL = Short Item Exposure limit STOT RE = specific target organ toxicity repeated exposure		
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STOT SE = specific target organ toxicity single exposure		STEL = Short term exposure limit
		STOT RE = specific target organ toxicity repeated exposure
SVHC = Substance of Very High Concern		STOT SE = specific target organ toxicity single exposure
		SVHC = Substance of Very High Concern

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
	TLV = Threshold Limit Value	
	TRGS = Technischen Regeln für Gefahrstoffe	
	TWA = time weighted average	
	UEL = Upper Explosion Limit	
	VLA-EC = valores límite ambientales para la exposición de corta duración	
	VLA-ED = valores límite ambientales para la exposición diaria	
	VLE = Valeur Limite d'exposition	
	VME = Valeur Limite de Moyenne d'exposition	
	VOC = Volatile Organic Compounds	
	vPvB = very Persistent and very Bioaccumulative	
	WGK = Wassergefärhdungsklasse	

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Aerosol 1	Aerosol, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
EUH066	Repeated exposure may cause skin dryness or cracking.	
Flam. Gas 1A	Flammable gases, Category 1A	
Flam. Liq. 1	Flammable liquids, Category 1	
Flam. Liq. 2	Flammable liquids, Category 2	
H220	Extremely flammable gas.	
H222	Extremely flammable aerosol.	
H224	Extremely flammable liquid and vapour.	
H225	Highly flammable liquid and vapour.	
H229	Pressurised container: May burst if heated.	
H301	Toxic if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H311	Toxic in contact with skin.	
H315	Causes skin irritation.	
H331	Toxic if inhaled.	
H336	May cause drowsiness or dizziness.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Press. Gas	Gases under pressure	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Disclaimer with regard to REACH:

The information provided in this Safety Data Sheet is consistent with the information in the Chemical Safety Report, as far as this information was available at the time of compilation (see last revision date).

Disclaimer:

The information of this Safety Data Sheet is based on the present state of our knowledge and on current EC and national laws, as the users' working conditions are beyond our knowledge and control. The user is always responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this Safety Data Sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information provided relates only to the specific product designated and may not be valid for such product used in combination with any other product. The product must not be used for any purposes other than those specified without first obtaining written handling instructions.