

according to Regulation (EC) No 1907/2006 (REACH) as amended

## **RF 800**

Creation date 26. April 2010

Revision date 26. April 2018 Version 1.06

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

1.1. Product identifier RF 800
Substance / mixture mixture

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

mixture's intended use Flux agent.

Mixture uses advised against

The product should not be used in ways other then those

referred in Section 1.

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

Distributor

Name or trade name AG TermoPasty Grzegorz Gąsowski Address Kolejowa 33 E, Sokoły, 18-218

Poland

 Identification number (ID)
 200133730

 VAT Reg No
 9661767714

 Phone
 862741342

E-mail biuro@termopasty.pl Web address www.termopasty.pl

#### Competent person responsible for the safety data sheet

Name AG TermoPasty Grzegorz Gąsowski

E-mail biuro@termopasty.pl

#### 1.4. Emergency telephone number

National Health Service (NHS) 111

National poisoning information centre Scotland, NHS 24: 111

#### **SECTION 2: Hazards identification**

# 2.1. Substance or mixture classification

### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of all classifications and hazard statements is given in the section 16.

## Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

### Most serious adverse effects on human health and the environment

Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. May cause an allergic skin reaction.

# 2.2. Label elements

# Hazard pictogram



# Signal word

Danger

### **Hazardous substances**

isopropanol

Distillates (petroleum), hydrotreated light

rosin; colophony



according to Regulation (EC) No 1907/2006 (REACH) as amended

	according to Regulation (EC) No 1907/2000 (REACH) as amended				
	RF 800				
Creation date	26. April 2010				
Revision date	26. April 2018	Version	1.06		

Hazard statements	
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

#### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P235 Keep cool.

P241 Use explosion-proof electrical/ventilating/lighting equipment.
P280 Wear protective gloves/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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

P331 Do NOT induce vomiting.

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulations.

#### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	isopropanol	≥75-<90	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
CAS: 64742-48-9 EC: 265-149-8 Registration number: 01-2119463258-33	Distillates (petroleum), hydrotreated light	≥10-<25	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336	
CAS: 110-15-6 EC: 203-740-4 Registration number: 01-2119896114-34	Kwas Bursztynowy	<3	Eye Dam. 1, H318	
Index: 650-015-00-7 CAS: 8050-09-7 EC: 232-475-7 Registration number: 01-2119480418-32	rosin; colophony	≤3	Skin Sens. 1, H317	

Full text of all classifications and hazard statements is given in the section 16.

### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.



according to Regulation (EC) No 1907/2006 (REACH) as amended

# **RF 800**

Creation date 26. April 2010

Revision date 26. April 2018 Version 1.06

#### Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

#### Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water/shower.

#### **Eve contact**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

#### Ingestion

DO NOT INDUCE VOMITING! If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Ensure medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

#### Inhalation

Cough, headache. May cause drowsiness or dizziness.

#### Skin contact

May cause an allergic skin reaction.

# Eye contact

Causes serious eye irritation.

#### Ingestion

Irritation, nausea.

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

Symptomatic treatment.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

# Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

# Unsuitable extinguishing media

Water - full jet.

# 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

# 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

# 6.4. Reference to other sections

See the Section 7, 8 and 13.



according to Regulation (EC) No 1907/2006 (REACH) as amended

## **RF 800**

Creation date 26. April 2010 Revision date 26. April 2018

Revision date 26. April 2018 Version 1.06

# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Contaminated work clothing should not be allowed out of the workplace. Use only non-sparking tools. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

## The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

#### 7.3. Specific end use(s)

not available

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

# United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Туре	Time of exposure	Value	Note	Source	
	WEL	8 hours	999 mg/m <sup>3</sup>			
isopropanol (CAS: 67-63-0)	WEL	15 minutes	1250 mg/m <sup>3</sup>		GBR	
Isopropation (CAS: 67-63-0)	WEL	8 hours	400 ppm			
	WEL	15 minutes	500 ppm			
rosin; colophony (CAS: 8050-09-	WEL	8 hours	0,05 mg/m <sup>3</sup>	Capable of causing occupational asthma.	GBR	
7)	WEL	15 minutes	0,15 mg/m <sup>3</sup>	Capable of causing occupational asthma.	GDK	

### **DNEL**

rosin; colophony

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	17 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	117 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Oral	10 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	10 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	35 mg/m <sup>3</sup>	Systemic chronic effects	

# PNEC

# rosin; colophony

Route of exposure	Value	Determining method
Drinking water	0.002 mg/l	
Seawater	0.0005 mg/l	
Freshwater sediment	0.007 mg/kg of dry substance	
Sea sediments	0.0108 mg/kg of dry substance	
Soil (agricultural)	21.4 mg/kg of dry substance	



according to Regulation (EC) No 1907/2006 (REACH) as amended

## **RF 800**

Creation date 26. April 2010

Revision date 26. April 2018 Version 1.06

rosin; colophony

Route of exposure	Value	Determining method
Microorganisms in wastewater treatment plants	1000 mg/l	

#### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

# Eye/face protection

Protective goggles.

# Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

### Respiratory protection

Mask with a filter against organic vapours in a poorly ventilated environment.

#### Thermal hazard

Not available.

# **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance liquid

Physical state liquid at 20°C color yellow

Odour containing alcohol
Odour threshold data not available

pH data not available

Melting point/freezing point data not available
Initial boiling point and boiling range 82 °C
Flash point 12 °C

Evaporation rate not available

Flammability (solid, gas) Highly flammable liquid and vapour.

Upper/lower flammability or explosive limits

flammability limits data not available

explosive limits

bottom 2 % upper 12 %

Vapour pressure data not available

Vapour density >1
Relative density 0.794

Solubility(ies)

solubility in water not available solubility in fats not available
Partition coefficient: n-octanol/water data not available
Auto-ignition temperature data not available
Decomposition temperature data not available
Viscosity data not available
Kinematic viscosity 0.02 mm²/s at 40°C

Explosive properties

Oxidising properties

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9.2. Other information

Density data not available ignition temperature data not available



according to Regulation (EC) No 1907/2006 (REACH) as amended

# **RF 800**

Creation date 26. April 2010 Revision date 26. April 2018

tevision date 26. April 2018 Version 1.06

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

not available

#### 10.2. Chemical stability

The product is stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hnknown

#### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

#### **Acute toxicity**

Based on available data the classification criteria are not met.

## isopropanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	5000 mg/kg		Rat	
Dermal	LD <sub>50</sub>	12800 mg/kg		Rabbit	

## Kwas Bursztynowy

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	2260 mg/kg		Rat	

# rosin; colophony

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	7600 mg/kg		Rat	

# Skin corrosion/irritation

Based on available data the classification criteria are not met.

# isopropanol

Route of exposure	Result	Time of exposure	Species	Source
Eye	Slightly irritating		Rabbit	10 miligrams
Eye	Highly irritating		Rabbit	100 miligrams
Skin	Slightly irritating		Rabbit	500 miligrams

# Kwas Bursztynowy

Route of exposure	Result	Time of exposure	Species	Source
Eye	Highly irritating		Rabbit	750 Micrograms



according to Regulation (EC) No 1907/2006 (REACH) as amended

# **RF 800**

Creation date 26. April 2010

Revision date 26. April 2018 Version 1.06

#### Serious eye damage/irritation

Causes serious eye irritation.

## isopropanol

Route of exposure	Result	Time of exposure	Species	Determining method	Source
Eye	Slightly irritating	24 hour	Rabbit	Nominal concentration	100 miligrams

#### Respiratory or skin sensitisation

May cause an allergic skin reaction. Based on available data the classification criteria are not met.

## Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

### Reproductive toxicity

Based on available data the classification criteria are not met.

## Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

# Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Aspiration hazard

May be fatal if swallowed and enters airways. Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time.

### **SECTION 12: Ecological information**

# 12.1. Toxicity

## **Acute toxicity**

Data for the mixture are not available.

### isopropanol

Parameter	Method	Value	Time of exposure	Species	Environmen t	Source
LC50		1400000 µg/l	96 hour	Fishes		
LC50		1400000-1950000 µg/l	48 hour	Crustaceans	Salt water	

#### Kwas Bursztynowy

Parameter	Method	Value	Time of exposure	Species	Environmen t	Source
EC50		374.2-400.0 mg/l	48 hour	Daphnia (Daphnia magna)	Freshwater	

# rosin; colophony

Parameter	Method	Value	Time of exposure	Species	Environmen t	Source
LC50	OECD 203	60.3 mg/l	96 hour	Branchydanio rerio		Scheerbau m D

# 12.2. Persistence and degradability



according to Regulation (EC) No 1907/2006 (REACH) as amended

## **RF 800**

Creation date 26. April 2010

Revision date 26. April 2018 Version 1.06

#### **Biodegradability**

## rosin; colophony

Parameter	Value	Time of exposure	Environment	Result
	80 %	28 day		Easily biodegradable

Not available.

# 12.3. Bioaccumulative potential

#### isopropanol

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	0.05				

#### Kwas Bursztynowy

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	-0.59				

#### rosin; colophony

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	1.9-7.7				

Not available.

## 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

#### 12.6. Other adverse effects

Not available.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

# Waste type code

14 06 03 other solvents and solvent mixtures

# **SECTION 14: Transport information**

# 14.1. UN number

UN 1993

### 14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S.

### 14.3. Transport hazard class(es)

3 Flammable liquids



1.06

according to Regulation (EC) No 1907/2006 (REACH) as amended

## **RF 800**

Creation date 26. April 2010 Revision date 26. April 2018 Version

# 14.4. Packing group

II - substances presenting medium danger

#### 14.5. Environmental hazards

not available

#### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not available

#### **Additional information**

Safety signs

Hazard identification No.

UN number

Classification code

33

(Kemler Code)

1993



#### Air transport - ICAO/IATA

Packaging instructions passenger 355
Cargo packaging instructions 366

### Marine transport - IMDG

EmS (emergency plan) F-E, S-E MFAG 310

### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

# 15.2. Chemical safety assessment

not available

H225

### **SECTION 16: Other information**

## A list of standard risk phrases used in the safety data sheet

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

# Guidelines for safe handling used in the safety data sheet

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

Highly flammable liquid and vapour.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/eye protection/face protection.



according to Regulation (EC) No 1907/2006 (REACH) as amended

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Creation date 26. April 2010 Revision date 26. April 2018 Version

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulations.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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

P235

P241 Use explosion-proof electrical/ventilating/lighting equipment.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

European agreement concerning the international carriage of dangerous goods by road

**BCF Bioconcentration Factor** CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and

mixtures

**DNEL** Derived no-effect level

EC Identification code for each substance listed in EINECS

EC50 Concentration of a substance when it is affected 50% of the population **EINECS** European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

IC50 Concentration causing 50% blockade **ICAO** International Civil Aviation Organization IMDG International Maritime Dangerous Goods

INCI International Nomenclature of Cosmetic Ingredients ISO International Organization for Standardization **IUPAC** International Union of Pure and Applied Chemistry

LC50 Lethal concentration of a substance in which it can be expected death of 50% of the population

LD<sub>50</sub> Lethal dose of a substance in which it can be expected death of 50% of the population

LOAEC Lowest observed adverse effect concentration

LOAEL Lowest observed adverse effect level log Kow Octanol-water partition coefficient

**MARPOL** International Convention for the Prevention of Pollution From Ships

NOAEC No observed adverse effect concentration

**NOAEL** No observed adverse effect level NOEC No observed effect concentration NOEL No observed effect level OFL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic **PNEC** Predicted no-effect concentration

ppm Parts per million

**REACH** Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN Model Regulations

**UVCB** Substances of unknown or variable composition, complex reaction products or biological

materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Asp. Tox. Aspiration hazard Eye Dam. Serious eye damage Eye Irrit. Eye irritation Flam. Liq. Flammable liquid Skin Sens. Skin sensitization



according to Regulation (EC) No 1907/2006 (REACH) as amended

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Creation date 26. April 2010

Revision date 26. April 2018 Version 1.06

STOT SE Specific target organ toxicity - single exposure

#### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.