

Safety data sheet

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

Printing date: 23.09.2020

Version number: 3

Revision: 22.09.2020

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

1.1 Product identifier**Trade name:** Special foam extinguishing spray GLACI AID MG-400 MKII**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No use descriptors (LCS, SU, PC, PROC, ERC, AC, TF categories) of the substance or mixture are available.

Application of the substance / the mixture:

The extinguishing spray is intended for extinguishing fires of solids, liquids, gases up to 3 bar, greases and oils from a minimum distance of 1.5 meter + devices under voltage up to 400 V from a minimum distance of 1 meter and for extinguishing/quenching fire lithium-ion accumulators and batteries.

Uses advised against: Any other than the above mentioned.**1.3 Details of the supplier of the safety data sheet****Supplier:**

GLACI-AID s.r.o.
Příkop 6/838, 602 00 Brno, Czech Republic
Company registration number: 052 79 844
Phone: +420 607 551 085
E-mail: uher@glaciaid.cz / Website: www.glaciaid.com

Further information obtainable from:

Ing. Karel Královec, Studio2K
Phone: +420 777 145 808, E-mail: bl@studio2k.cz, Website: www.bezpecnostni-listy.eu

1.4 Emergency telephone number

Phone: +420 224 919 293 or +420 224 915 402; E-mail: tis@vfn.cz
Toxicology Information Centre in Prague (TIS), Na Bojišti 1, 120 00 Prague 2
Permanent medical information service for cases of acute poisoning of humans and animals.
National helpdesks contact details - <http://echa.europa.eu/cs/support/helpdesks/national-helpdesks/list-of-national-helpdesks>.
Links to Poison Centers and Clinical Toxicologists all over the World: <https://www.eapcct.org/index.php?page=links>.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**

The product is classified as dangerous in the terms of the Regulation (EC) No 1272/2008 (CLP).

Aerosol 3 H229 Pressurised container: May burst if heated.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008:**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms: Void.**Signal word:** Warning**Hazard-determining components of labelling:** Void.**Hazard statements:**

H229 Pressurised container: May burst if heated.

Precautionary statements:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Additional information: Void.**2.3 Other hazards** Danger of explosion spray can when heated.**Results of PBT and vPvB assessment****PBT:**

The mixture does not contain substances classified as of the date of preparation of the safety data sheet as PBT pursuant to Regulation (EC) No 1907/2006 (REACH).

vPvB:

The mixture does not contain substances classified as of the date of preparation of the safety data sheet as vPvB pursuant to Regulation (EC) No 1907/2006 (REACH).

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)

Safety data sheet

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

Printing date: 23.09.2020

Version number: 3

Revision: 22.09.2020

Trade name: Special foam extinguishing spray GLACI AID MG-400 MKII

(Contd. of page 1)

· **Dangerous components:**

Substances contained in the mixture do not represent danger to health or the environment pursuant to regulation (EC) No 1272/2008, or they are contained below a concentration limit corresponding to hazard class and category of the substance pursuant to Regulation (EC) No 2015/830.

Substances contained in the mixture do not have Community workplace exposure limits determined.

· **Non dangerous components:**

mixture	extinguishing mixture premix	100%
---------	------------------------------	------

· **SVHC:**

The product does not contain substances classified as of the date of preparation of the safety data sheet as PBT or vPvB and stated in the Candidate list of substances producing very high concerns for Appendix XIV of Regulation (EC) No 1907/2006 (REACH).

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents:** Not apply.

· **Additional information:** Void.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

In case of doubt, appearance of symptoms or upon any problems, seek medical help and present this safety data sheet or the product label.

· **After inhalation:** Inhalation exposure is improbable.

· **After skin contact:**

Generally the product does not irritate the skin.

Wash the affected skin with water and soap and rinse thoroughly. Upon skin irritation or other problems, consult further procedure with an expert physician.

· **After eye contact:**

Open the eye lids, possibly remove contact lenses, and rinse the affected eyes thoroughly with clean flowing water for a period of several minutes. In case of eye irritation or other difficulties, consult further procedure with an ophthalmologist.

· **After swallowing:**

Thoroughly rinse the mouth with water, have the affected person drink plenty of water and do not induce vomiting. Seek medical assistance immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

Possible toxicological effects resulting from the classification are stated in Section 11.

No further relevant information is available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

In case of ingestion seek medical help immediately.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** Product itself is fire extinguishing agent.

· **For safety reasons unsuitable extinguishing agents:** None.

· **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Toxic thermal decomposition products.

Inhalation of hazardous decomposition products of burning may result in damaged health.

Danger of explosion when heated spray can.

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

· **Additional information:**

Cool with water the products in enclosed packaging, which is near the fire. If possible, remove the products in un-damaged packaging from the danger area. Store the contaminated extinguishing water separately and do not let it into the sewerage. Remove the extinguishing water or used extinguishing materials together with the remnants of the fire according to the corresponding regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

(Contd. on page 3)

Safety data sheet

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

Printing date: 23.09.2020

Version number: 3

Revision: 22.09.2020

Trade name: Special foam extinguishing spray GLACI AID MG-400 MKII

(Contd. of page 2)

Prevent contact of the product with eyes, skin, and clothing, use personal protective equipment.
Prevent entry of unauthorised persons.

· **6.2 Environmental precautions**

Prevent increasing of the leaked quantity. Do not let the product enter the sewerage, surface and ground water and soil. Upon a more extensive leak of the product into the environment, proceed according to local regulations and contact the respective departments of local authorities.

· **6.3 Methods and material for containment and cleaning up**

No special measures required.
Thoroughly wash the affected spot and the tools used with a suitable detergent, it is possible to use a larger quantity of water.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation and exhaustion.
Observe directions on label and instructions for use.
No special precautions are necessary if used correctly.
Before use, it is necessary to familiarize oneself with the contents of Sections 2, 6, 8, and 11 of the safety data sheet.
General hygiene measures for the handling of chemicals are applicable.
Before a pause and after ending the work, wash the hands and take off the polluted working clothes. Keep these clothes separately.
Do not eat, drink, smoke, or snuff during use.

· **Information about fire - and explosion protection:**

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurised containers.
Store only in unopened original receptacles.

· **Information about storage in one common storage facility:** Keep away from food, drink and animal feedingstuffs.

· **Further information about storage conditions:**

Store in a dry and well ventilated place.
Protect from heat and direct sunlight.

· **Maximum storage temperature:** +50 °C.

· **7.3 Specific end use(s)**

Specific use is stated in the manual for use on the product packaging label or in the product documentation.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs:** No values available.

· **PNECs:** No values available.

· **Ingredients with biological limit values:**

The product does not contain any relevant quantities of materials with biological limit values.

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Do not eat, drink, smoke or sniff while working.
Immediately remove all soiled and contaminated clothing.

(Contd. on page 4)

Safety data sheet

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

Printing date: 23.09.2020

Version number: 3

Revision: 22.09.2020

Trade name: Special foam extinguishing spray GLACI AID MG-400 MKII

(Contd. of page 3)

Avoid contact with the eyes and skin.
Do not inhale gases/fumes/aerosols.

· **Respiratory protection:** Unnecessary during regular use.

· **Protection of hands:**

Not required during regular use.



Use protective gloves whenever there is a risk of direct contact with hands (EN ISO 374-1).

· **Material of gloves:** Butyl rubber, BR (EN ISO 374-1).

· **Penetration time of glove material:** Not determined.

· **Eye protection:**



In case of danger of contact with eyes, use tightly adhering protective goggles (EN 166).

· **Body protection:**

Not required during regular use.
Alternatively, use light protective clothing.

· **Thermal hazards:**

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

· **Limitation and supervision of exposure into the environment:**

Adhere to usual measures for environmental protection, see Section 6.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance**

Form: Aerosol, active substance: liquid.
Colour: Amber coloured

· **Odour:** Odourless.

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 7.5 - 8.5 (liquid)

· **Change in condition**

Melting point/freezing point: -5 °C (liquid)
Initial boiling point and boiling range: 100 °C (liquid)

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits**

Lower: Not determined.
Upper: Not determined.

· **Oxidising properties:** No.

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** 1.05 g/cm³ (liquid)

· **Vapour density:** Not determined.

(Contd. on page 5)

Safety data sheet

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

Printing date: 23.09.2020

Version number: 3

Revision: 22.09.2020

Trade name: Special foam extinguishing spray GLACI AID MG-400 MKII

(Contd. of page 4)

· Evaporation rate:	Not determined.
· Solubility in / Miscibility with water:	Not determined.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity Dynamic at 20 °C: Kinematic:	< 20 mPa.s (liquid) Not determined.
· Solvent content	
Organic solvents: VOC (2010/75/EC):	0.32 % hmot. (liquid) 0.319 % hmot. (3,257 g/l - liquid)
· Solids content:	6.35 % hmot. (liquid)
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** Upon adhering to the determined regulations of storage and use, no reactivity is expected (see Section 7).
- **10.2 Chemical stability:**
Upon adhering to the determined regulations of storage and use, the product is stable (see Section 7).
- **10.3 Possibility of hazardous reactions:** Upon regular manner of use and storage, no hazardous reactions are created.
- **10.4 Conditions to avoid:**
Protect against heating, open flames, and ignition sources.
Pressure increase will result in danger of bursting.
- **10.5 Incompatible materials:** No incompatible materials are specified.
- **10.6 Hazardous decomposition products:** No decomposition when used as directed.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **Relevant toxicological values for classification:** No further relevant information available.
- **Primary irritant effect**
- **Skin corrosion/irritation:** Based on the available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on the available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:** Based on the available data, the classification criteria are not met.
- **Additional toxicological information:** No relevant information is available.
- **Acute effects:** No acute effects are known.
- **Sensitisation:** Based on the available data, the classification criteria are not met.
- **Repeated dose toxicity:** Based on the available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No CMR effects are known.
- **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.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **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.
- **Other information:** No further information is available.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.

(Contd. on page 6)

Safety data sheet

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

Printing date: 23.09.2020

Version number: 3

Revision: 22.09.2020

Trade name: Special foam extinguishing spray GLACI AID MG-400 MKII

(Contd. of page 5)

- **Behaviour in waste water treatment plants:** No relevant information is available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information**
- **AOX-indication:** No relevant information is available.
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:**
The mixture does not contain substances classified as of the date of preparation of the safety data sheet as the PBT pursuant to Regulation (EC) No 1907/2006 (REACH).
- **vPvB:**
The mixture does not contain substances classified as of the date of preparation of the safety data sheet as the vPvB pursuant to Regulation (EC) No 1907/2006 (REACH).
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household waste. Do not allow product to reach sewage system.
The mixture is disposed of together with the pressure vessel.
Remove the remains of the product according to corresponding local directives in appropriate facilities, such as depositing on at suitable landfills.
- **Waste disposal key:**
The catalogue numbers with the asterisk (*) mark hazardous waste (N), numbers without the asterisk mark other waste (O).
The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC).

· **European waste catalogue and hazardous properties of waste:**

16 05 05	gases in pressure containers other than those mentioned in 16 05 04
15 01 11*	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers
15 01 04	metallic packaging

- **Uncleaned packaging**
- **Recommendation:**
Dispose of packaging according to regulations on the disposal of packagings.
Completely empty the pressure bottles (including the propelling gas).
Do not open by force or incinerate empty pressure bottles after use.
Take full aerosol cans to problem waste collection.
Handover the emptied packaging to the authorised organisation, which has a licence for their disposal.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.
- **Regulations:**
Decree of the MoE and MoA No. 376/2001 Coll. about the evaluation of hazardous properties of waste, as amended.
Commission Regulation (EU) No 1357/2014, replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives.
Law No. 185/2001 Coll., about waste and about a change of some other laws, as amended.
Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives, as amended.
Commission Decision No 2014/955/EU of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council.
Decree of MoE No. 383/2001 Coll. about the details of waste handling, as amended.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1950

(Contd. on page 7)

Safety data sheet

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

Printing date: 23.09.2020

Version number: 3

Revision: 22.09.2020

Trade name: Special foam extinguishing spray GLACI AID MG-400 MKII

(Contd. of page 6)

· **14.2 UN proper shipping name**

· **ADR** 1950 AEROSOLS
 · **IMDG** AEROSOLS
 · **IATA** AEROSOLS, non-flammable

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class:** 2.5A Gases.
 · **Label:** 2.2

· **IMDG, IATA**



· **Class:** 2.2
 · **Label:** 2.2

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void.

· **14.5 Environmental hazards**

· **Marine pollutant:** No.

· **14.6 Special precautions for user**

Persons employed in transporting dangerous goods must be trained.
 All persons involved in transporting must observe safety regulations.
 Precautions must be taken to prevent damage.
 Warning: Gases.

· **Hazard identification number (Kemler code):** -

· **EMS Number:** F-D,S-U

· **Stowage Code:** SW1 Protected from sources of heat.

· **Segregation Code:**

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
 SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
 For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2.
 For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.
 Minimum amount regulations have not been taken into account.

· **Transport/Additional information:**

Danger code and packing code on request.

· **ADR**

· **Limited quantities (LQ):** 1L

· **Excepted quantities (EQ):** Code: E0
 Not permitted as Excepted Quantity

· **Transport category:** 3

· **Tunnel restriction code:** E

· **IMDG**

· **Limited quantities (LQ):** 1L

· **Excepted quantities (EQ):** Code: E0
 Not permitted as Excepted Quantity.

(Contd. on page 8)

Safety data sheet

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

Printing date: 23.09.2020

Version number: 3

Revision: 22.09.2020

Trade name: Special foam extinguishing spray GLACI AID MG-400 MKII

(Contd. of page 7)

· **UN "Model Regulation":** UN 1950 AEROSOLS, 2.2

SECTION 15: Regulatory information

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

- **Tactile warning of danger:** Not applicable.
- **Named dangerous substances - ANNEX I:** None of the ingredients is listed.
- **Child-resistant fastening:** Not applicable.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction for the group No 3.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **Legal regulations of the European Community:**

Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC, as amended.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 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.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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.

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended.

COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

- **15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Warning:**

The safety data sheet contains data needed for securing safety and health protection during work and environmental protection. The stated data correspond to the current state of knowledge and experience and is in accordance with valid legal regulations. It cannot be deemed as a guarantee of the properties, suitability, and usefulness of the product for specific application and therefore no contractual legal relationships are hereby created.

The safety data sheet is the property of the physical or legal entity stated in Section 1 and is protected by copy-right. All copying, distribution or sales without the consent of the owner is forbidden.

- **Relevant phrases:** Void.

- **Training hints:** Before using, read the information on the product's packaging carefully.

· **Recommended restriction of use:**

The product is to be used only for the purpose, for which it is designed. It is up to the user's responsibility to adhere to the product usage conditions and to respect the safety instructions for health and environmental protection.

Shelf life in undamaged packaging is 6 years.

Standard packaging: 400 ml aluminium spray can of the BOV system.

- **Further information:** This product must be stored, sold, and used in accordance with valid hygienic regulations.

· **Classification according to Regulation (EC) No 1272/2008:**

Classification of the mixture was performed according to the methods given in Annex I to Regulation (EC) No 1272/2008 (CLP).

Aerosols	Bridging principles
----------	---------------------

· **Department issuing SDS:**

Ing. Karel Královec, Studio2K

Phone: +420 777 145 808, E-mail: info@studio2k.cz, Websites: www.studio2k.cz / www.bezpecnostni-listy.eu

- **First issue of SDS:** 12.10.2016

- **Internal code formula:** 1050.002

(Contd. on page 9)

Safety data sheet

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

Printing date: 23.09.2020

Version number: 3

Revision: 22.09.2020

Trade name: Special foam extinguishing spray GLACI AID MG-400 MKII

(Contd. of page 8)

· **Documents used to prepare SDS:**

The original documents provided by the supplier or manufacturer related to the product (mixture), eventually to individual substances contained. In this case, the date of issue of the documents used is: 02.05.2015.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Aerosol 3: Aerosols – Category 3

· **Sources:**

The safety data sheet was prepared in accordance with the European Parliament and Council Regulation (EC) No 1272/2008 (CLP) and according to the requirements of the European Parliament and Council Regulation (EC) No 1907/2006 about the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency - head IV, article 31, appendix II (instructions for safety data sheet compiling), as amended by the Commission Regulation (EU) No 2015/830 dated 28 May 2015.

The missing ecotoxicology and toxicology data was obtained from the ESIS (European chemical Substances Information System), specifically from the IUCLID (International Uniform Chemical Information Database). As needed, data from further available chemical databases was used.

· **Safety data sheet revision:**

Safety data sheet revision because of the addition of certain data or information.

Change of chapters: 1, 9, 13, 14, 15, 16.

This release of the safety data sheet is its 2 revision and replaces the safety data sheet revised on: 21.11.2016.

· © Studio2K & DR SoftWare ChemGes