

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.06.2016

Revision: 03.06.2016

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

#### · 1.1 Product identifier

· **Trade name:** **30% Acrylamide (w/v) Ratio 29:1**

· **Article number:** 20-2600-05

· **Registration number**

Mixture

Acrylamide: 01-2119463260-48

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

· **Sector of Use** SU24 Scientific research and development

· **Product category** PC21 Laboratory chemicals

· **Application of the substance / the mixture** Reactive monomer solution for the production of polymers.

· **Uses advised against**

Any use involving aerosol formation or vapour or dust release in excess of the assigned workplace exposure limits where workers are exposed without suitable respiratory protective equipment (RPE).

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Processes involving the use of incompatible substances - refer to section 10.

Processes involving extreme heat use advised against.

Processes where workers who may be pregnant or breastfeeding could potentially come into direct contact with the product.

The product is intended exclusively for industrial and professional use.

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

· **Manufacturer/Supplier:**

Severn Biotech Ltd.

Unit 2,

Park Lane,

Kidderminster,

Worcestershire.

DY11 6TJ

UK

Tel: 0044 1562 825286

Fax: 0044 1562 825284

email: info@severnbiotech.com

· **Further information obtainable from:** Product safety department.

· **1.4 Emergency telephone number:** Tel: 0044 1562 825286 (not 24 hours)

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

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



GHS08 health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 2 H361f Suspected of damaging fertility.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

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**Trade name: 30% Acrylamide (w/v) Ratio 29:1**

(Contd. of page 1)

- **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** GHS07, GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
acrylamide
- **Hazard statements**  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H361f Suspected of damaging fertility.  
H372 Causes damage to organs through prolonged or repeated exposure.
- **Precautionary statements**  
P260 Do not breathe mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P270 Do not eat, drink or smoke when using this product.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

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

- **Dangerous components:**

CAS: 79-06-1	acrylamide	10-50%
EINECS: 201-173-7	☠ Acute Tox. 3, H301; ☠ Muta. 1B, H340; ☠ Carc. 1B, H350; Repr. 2, H361f; STOT RE 1, H372; ☠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 110-26-9	N,N-Methylene Bis Acrylamide	<2.5%
EINECS: 203-750-9	☠ Acute Tox. 4, H302	

- **SVHC**

79-06-1	acrylamide
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
In case of irregular breathing or respiratory arrest provide artificial respiration.

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.06.2016

Revision: 03.06.2016

**Trade name: 30% Acrylamide (w/v) Ratio 29:1**

(Contd. of page 2)

- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
DO NOT DELAY!  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.  
MAY BE ABSORBED through the skin!
- **After eye contact:**  
DO NOT DELAY!  
Check for and remove any contact lenses.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
DO NOT DELAY!  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.  
If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Information for doctor:**  
Treat symptomatically and supportively.  
No specific antidote.  
As ingestion may cause central and peripheral nervous system depression, do not induce vomiting because of the danger of aspiration.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**  
Gives off irritating or toxic fumes (or gases) in a fire.  
Elevated temperatures or contamination may cause material to polymerise causing a pressure buildup that may violently rupture tanks or containers.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.
- **Additional information** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow to penetrate the ground/soil.  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Send for recovery or disposal in suitable receptacles.  
Ensure adequate ventilation.

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.06.2016

Revision: 03.06.2016

**Trade name: 30% Acrylamide (w/v) Ratio 29:1**

(Contd. of page 3)

**· 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**

- Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- Safety showers and eye wash facilities should be available at the work area.
- Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Never mouth pipette acrylamide solutions.
- Take note of assigned workplace exposure limits.
- Do NOT take working clothes home. Launder contaminated clothing before reuse.
- Safety showers and eye wash facilities should be available within easy reach of the work areas.
- Laboratories should be equipped with suitable exhaust ventilation and fume cupboards.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.

**· 7.2 Conditions for safe storage, including any incompatibilities**
**· Storage:**
**· Requirements to be met by storerooms and receptacles:**

- Prevent any seepage into the ground.
- Light sensitive. Store in light-resistant containers. Keep container tightly closed.
- Keep container in a cool, well-ventilated area. Do not store above 23 °C (73.4°F). Preferably store in a refrigerator at 4 °C
- Keep away from heat sources and direct sunlight. Storage temperatures should be ideally maintained below 4 degs. C.
- Heating in an open container may cause loss of oxygen.
- Packaged product should be consumed on a first in, first out basis.
- **Information about storage in one common storage facility:**
- Store away from oxidising agents.
- Store away from reducing agents.
- Store away from metals.
- Store away from foodstuffs.
- Do not store with chelating agents.

**· Further information about storage conditions:** Keep container tightly sealed.

**· 7.3 Specific end use(s)** No further relevant information available.

### 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:**
**79-06-1 acrylamide**

WEL	Long-term value: 0.3 mg/m <sup>3</sup>
	Carc; Sk

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

**· 8.2 Exposure controls**
**· Personal protective equipment:**

- Select PPE appropriate for the operations taking place taking into account the product properties.

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.06.2016

Revision: 03.06.2016

**Trade name: 30% Acrylamide (w/v) Ratio 29:1**

(Contd. of page 4)

**· General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Storing food in the working area is prohibited.

A safe system of work must be formulated and followed to ensure that workers who may be pregnant or breastfeeding do not come into direct contact with the product.

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

Take note of assigned Workplace Exposure Limits.

Do not inhale gases / fumes / aerosols.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Ensure that eyewash stations and safety showers are close to the workstation location.

Depending on the degree of exposure, periodic medical examination is suggested.

**· Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**· Protection of hands:**


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

For operations where skin contact with this material can occur, wear impervious gloves (e.g. PVC or nitrile).

**WASH GLOVES THOROUGHLY BEFORE REMOVING AND DISCARD GLOVES THAT ARE CONTAMINATED ON THE INSIDE.**

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:**


Tightly sealed goggles

**· Body protection:**

Impervious protective clothing

For operations where skin contact with this material can occur, wear rubber or neoprene shoes or boots (leather is unsuitable unless covered) and impervious disposable coveralls that provide head, arm and foot protection from contact with this material.

GB

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.06.2016

Revision: 03.06.2016

Trade name: 30% Acrylamide (w/v) Ratio 29:1

(Contd. of page 5)

### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

Form: Fluid

Colour: Clear

· Odour: Characteristic

· Odour threshold: Not determined.

· pH-value: 5-8

##### · Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

##### · Ignition temperature:

Decomposition temperature: Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

##### · Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C: 1.0-1.7 g/cm<sup>3</sup>

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

##### · Solubility in / Miscibility with water:

Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

##### · Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

##### · 9.2 Other information

No further relevant information available.

### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

##### · 10.2 Chemical stability

The component substances are stable at room temperature but may polymerise violently when heated above 50 °C.

##### · Thermal decomposition / conditions to be avoided:

Elevated temperatures or contamination may cause material to polymerise causing a pressure buildup that may violently rupture tanks or containers.

##### · 10.3 Possibility of hazardous reactions

Acrylamide is incompatible with reducing agents, copper, aluminium, brass and braoze. Iron or rust may trigger rapid exothermic polymerisation of solutions.

Reacts spontaneously with hydroxyl-, amino-, and sulfhydryl- containing compounds. Reacts vigorously with acids, bases producing ammonia salts and acrylic acid.

(Contd. on page 7)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.06.2016

Revision: 03.06.2016

**Trade name: 30% Acrylamide (w/v) Ratio 29:1**

(Contd. of page 6)

Spontaneous polymerisation does not readily occur, but requires the presence of dimethylaminopropionitrile (DMAPN) catalyst and ammonium persulphate. Also, acrylamide may polymerise upon contact with oxidizing materials such as peroxides.

· **10.4 Conditions to avoid** Do not overheat.

· **10.5 Incompatible materials:**

Strong acids and oxidising agents

Reducing agents.

Finely powdered metals.

· **10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Ammonia

Nitrogen oxides (NO<sub>x</sub>)

### SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity**

Harmful if swallowed.

· **LD/LC50 values relevant for classification:**

#### 79-06-1 acrylamide

Oral	LD50	177 mg/kg (rat)
Dermal	LD50	1141 mg/kg (rat)

#### 110-26-9 N,N-Methylene Bis Acrylamide

Oral	LD50	390 mg/kg (rat)
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· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

· **Other information (about experimental toxicology):**

Acrylamide is readily absorbed by oral, dermal and inhalative routes..

**EFFECTS OF SHORT-TERM EXPOSURE:** The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system.

Depending on the degree of exposure, periodic medical examination is suggested.

· **Subacute to chronic toxicity:**

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:** The substance may have effects on the nervous system, resulting in peripheral nerve damage. This substance is probably carcinogenic to humans. May cause heritable genetic damage in humans.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity**

May cause genetic defects.

· **Carcinogenicity**

May cause cancer.

· **Reproductive toxicity**

Suspected of damaging fertility.

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

GB

(Contd. on page 8)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.06.2016

Revision: 03.06.2016

**Trade name: 30% Acrylamide (w/v) Ratio 29:1**

(Contd. of page 7)

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

**79-06-1 acrylamide**

EC50 98 mg/kg (daphnia)

#### · 12.2 Persistence and degradability Easily biodegradable

#### · 12.3 Bioaccumulative potential Product is not expected to bioaccumulate.

#### · 12.4 Mobility in soil No further relevant information available.

#### · Additional ecological information:

##### · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

#### · 12.5 Results of PBT and vPvB assessment

 · **PBT:** Not applicable.

 · **vPvB:** Not applicable.

#### · 12.6 Other adverse effects No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Contact waste processors for recycling information.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

Employees engaged in disposal of acrylamide should be thoroughly trained in effective procedures and protected from any possibility to skin or eye contact or inhalation of dusts, fumes or vapours.

Waste acrylamide monomer and containers that have held acrylamide monomer can be a hazard. Do not let such waste material into municipal waste treatment or landfill operations. Containers must be rinsed thoroughly and then can be disposed by burning in an approved industrial incinerator or buried in an approved landfill.

##### · European waste catalogue

Waste key numbers in accordance with the European Waste Catalogue (EWC) are origin-referred defined.

Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.

##### · Uncleaned packaging:

##### · Recommendation:

Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop flammable vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

##### · Recommended cleansing agents: Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

#### · 14.1 UN-Number

 · **ADR, IMDG, IATA**

UN3426

(Contd. on page 9)



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.06.2016

Revision: 03.06.2016

Trade name: 30% Acrylamide (w/v) Ratio 29:1

(Contd. of page 8)

<ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>	3426 ACRYLAMIDE SOLUTION ACRYLAMIDE SOLUTION
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- 14.3 Transport hazard class(es)
- ADR, IMDG, IATA



<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	6.1 Toxic substances. 6.1
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<ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· ADR, IMDG, IATA</li> </ul>	III
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<ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	No
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<ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> </ul>	Warning: Toxic substances.
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<ul style="list-style-type: none"> <li>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	Not applicable.
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- Transport/Additional information:

<ul style="list-style-type: none"> <li>· ADR</li> <li>· Limited quantities (LQ)</li> <li>· Tunnel restriction code</li> </ul>	5L E
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<ul style="list-style-type: none"> <li>· UN "Model Regulation":</li> </ul>	UN3426, ACRYLAMIDE SOLUTION, 6.1, III
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## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 28, 29, 60

- National regulations:

- Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- Other regulations, limitations and prohibitive regulations

- Substances of very high concern (SVHC) according to REACH, Article 57

79-06-1	acrylamide
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- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases

H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.

(Contd. on page 10)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.06.2016

Revision: 03.06.2016

**Trade name: 30% Acrylamide (w/v) Ratio 29:1**

(Contd. of page 9)

H332 Harmful if inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

**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)

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

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1B: Carcinogenicity – Category 1B

Repr. 2: Reproductive toxicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

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