

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Chemwatch Hazard Alert Code: 2

Issue Date: **18/06/2024** Print Date: **31/10/2024** S.REACH.GB-NIR.EN

Apollo Scientific Part Number: OR75316

Version No: 1.1 Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

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

1.1. Product Identifier

Product name	3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate	
Synonyms	Not Available	
Chemical formula	C11-H21-N-O5-S	
Other means of identification	Not Available	
CAS number	3637-26-1	
EC number	222-860-8	

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

Relevant identified uses	Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Apollo Scientific			
Address	efield Road, Bredbury SK62QR United Kingdom			
Telephone	01614060505			
Fax	0161 406 0506			
Website	https://www.apolloscientific.co.uk/			
Email	sales@apolloscientific.co.uk			

1.4. Emergency telephone number

Association / Organisation	Not Available	
Emergency telephone number(s)	Not Available	
Other emergency telephone number(s)	Not Available	

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]	H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2, H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

H315

Causes skin irritation.

Part Number: **0R75316** Page **2** of **11** Issue Date: **18/06/2024**

Version No: 1.1

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Print Date: 31/10/2024

H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P271	P271 Use only outdoors or in a well-ventilated area.		
P261	Avoid breathing dust/fumes.		
P280	Wear protective gloves, protective clothing, eye protection and face protection.		
P264	Wash all exposed external body areas thoroughly after handling.		

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P302+P352	IF ON SKIN: Wash with plenty of water.			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P332+P313	If skin irritation occurs: Get medical advice/attention.			
P362+P364	Take off contaminated clothing and wash it before reuse.			

Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

 $\label{lem:material} \textit{Material contains 3-((2-(Methacryloyloxy)ethyl)dimethylammonio)} propane-1-sulfonate.$

2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 Composition / information on ingredients

3.1.Substances

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M- Factor	Nanoform Particle Characteristics
1. 3637-26-1 2.222-860-8 3.Not Available 4.Not Available	100	3-((2- (Methacryloyloxy)ethyl)dimethylammonio)propane- 1-sulfonate	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3; H315, H319, H335 ^[1]	SCL: Not Available Acute M factor: Not Available Chronic M factor: Not Available	Not Available

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

3.2.Mixtures

See 'Information on ingredients' in section 3.1

SECTION 4 First aid measures

4.1. Description of first aid measures

4.1. Description of first and measures			
Eye Contact	If this product comes in contact with the eyes: • Wash out immediately with fresh running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. • Seek medical attention without delay; if pain persists or recurs seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.		
Skin Contact	If skin contact occurs: ▶ Immediately remove all contaminated clothing, including footwear. ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.		
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. 		

Part Number: **OR75316** Page **3** of **11** Issue Date: **18/06/2024**

Version No: 1.1

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Print Date: 31/10/2024

	 Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

5.2. Special hazards arising from the substrate or mixture

oz. oposta nazarao anomg nom the casetrate of mixtare		
Fire Incompatibility	None known.	
5.3. Advice for firefighters		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. 	
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes. May emit corrosive fumes. 	

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and dust respirator. Use dry clean up procedures and avoid generating dust. Sweep up, shovel up or Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Place spilled material in clean, dry, sealable, labelled container.
Major Spills	Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Safe handling Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils.

Avoid contact with incompatible materials.

Part Number: **OR75316** Page **4** of **11** Issue Date: **18/06/2024**

Version No: 1.1

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Print Date: 31/10/2024

- ▶ When handling, **DO NOT** eat, drink or smoke
- ▶ Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- ▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Fire and explosion protection See section 5

Other information

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

For major quantities:

- Consider storage in bunded areas ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).
- Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Not Available	Not Available	Not Available

^{*} Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Not Applicable

Ingredient	Original IDLH	Revised IDLH
3-((2- (Methacryloyloxy)ethyl)dimethylammonio)propane- 1-sulfonate	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
3-((2- (Methacryloyloxy)ethyl)dimethylammonio)propane- 1-sulfonate	Е	≤ 0.01 mg/m³
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected worker health.	

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

 Part Number: 0R75316
 Page 5 of 11
 Issue Date: 18/06/2024

Version No: 1.1

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Print Date: 31/10/2024

- Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.
- If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of:
- (a): particle dust respirators, if necessary, combined with an absorption cartridge;
- (b): filter respirators with absorption cartridge or canister of the right type;
- (c): fresh-air hoods or masks.

Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.

Type of 0	Contaminant:	Air Speed:
	ray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active on into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
0	abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone igh rapid air motion).	2.5-10 m/s (500-2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

8.2.2. Individual protection measures, such as personal protective equipment











Eye and face protection

Safety glasses with side shields

- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Skin protection

See Hand protection below

Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical 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.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

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. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact,
- · chemical resistance of glove material
- · glove thickness and
- · dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- \cdot When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- EN 374, ASINZS 2161.10.1 or inational equivalent) is recommended.

 Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- · Contaminated gloves should be replaced.
- As defined in ASTM F-739-96 in any application, gloves are rated as:
- · Excellent when breakthrough time > 480 min
- · Good when breakthrough time > 20 min
- \cdot Fair when breakthrough time < 20 min
- · Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- · Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

polychloroprene.

 Part Number: 0R75316
 Page 6 of 11
 Issue Date: 18/06/2024

 Version No: 1.1
 Print Date: 31/10/2024

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

	 nitrile rubber. butyl rubber. fluorocaoutchouc. polyvinyl chloride. Gloves should be examined for wear and/ or degradation constantly.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Respiratory protection

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

^{* -} Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- · Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- · Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- · Use approved positive flow mask if significant quantities of dust becomes airborne.
- · Try to avoid creating dust conditions.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder		
Physical state	Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	150-155	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available

Part Number: OR75316 Version No: 1.1

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Issue Date: 18/06/2024 Print Date: 31/10/2024

Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7.2
10.2. Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 Toxicological information

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

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.	
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.	
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.	
Еуе	This material can cause eye irritation and damage in some persons.	
Chronic	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.	

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

TOXICITY	IRRITATION
Not Available	Not Available

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	~	STOT - Single Exposure	~
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Version No: 1.1

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Issue Date: **18/06/2024**Print Date: **31/10/2024**

✓ – Data available to make classification

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	>85.23mg/l	2
EC50	48h	Crustacea	>100mg/l	2
NOEC(ECx)	72h	Algae or other aquatic plants	6.93mg/l	2

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

12.5. Results of PBT and vPvB assessment

	P	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
PBT vPvB	×	×	×
PBT Criteria fulfilled?	No		
vPvB	No		

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal	 Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Part Number: OR75316
Version No: 1.1

$\hbox{$3$-((2-(Methacryloyloxy)ethyl)$dimethylammonio)$ propane-1-sulfonate}\\$

Issue Date: **18/06/2024**Print Date: **31/10/2024**

14.1.	UN number or ID number			
14.2.	UN proper shipping name	Not Applicable		
14.3.	Transport hazard	Class Not A	Applicable	
	class(es)	Subsidiary Hazard Not	Applicable	
14.4.	Packing group	Not Applicable		
14.5.	Environmental hazard	Not Applicable		
	. Special precautions for user	Hazard identification (Keml	er) Not Applicable	
		Classification code Not Applicable		
14.6.		Hazard Label Not Applicable		
		Special provisions Not Applicable		
		Limited quantity	Not Applicable	
		Tunnel Restriction Code	Not Applicable	
Air tra	nsport (ICAO-IATA / DGR): NOT REGULATED FOR T	RANSPORT OF DANGEROUS	GOODS
14.1.	UN number	Not Applicable		
14.2.	UN proper shipping name	Not Applicable		
14.2	Transport barard	ICAO/IATA Class	Not Applicable	
14.3.	Transport hazard class(es)	ICAO / IATA Subsidiary Haz	zard Not Applicable	
	` ,	ERG Code	Not Applicable	
14.4.	Packing group	Not Applicable		
14.5.	Environmental hazard	Not Applicable		
		Special provisions		Not Applicable
		Cargo Only Packing Instruc	ctions	Not Applicable
				1
		Cargo Only Maximum Qty /	/ Pack	Not Applicable
14.6.	Special precautions for	Cargo Only Maximum Qty /		Not Applicable Not Applicable
14.6.	Special precautions for user	Passenger and Cargo Pack	king Instructions	Not Applicable
14.6.	•	Passenger and Cargo Pack Passenger and Cargo Maxi	king Instructions imum Qty / Pack	Not Applicable Not Applicable
14.6.	•	Passenger and Cargo Pack Passenger and Cargo Maxi	king Instructions imum Qty / Pack ted Quantity Packing Instructions	Not Applicable
Sea tra 14.1.	user	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit	king Instructions imum Qty / Pack ted Quantity Packing Instructions	Not Applicable Not Applicable Not Applicable Not Applicable
Sea tra 14.1. 14.2.	ansport (IMDG-Code / GG UN number UN proper shipping	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit SVSee): NOT REGULATED F	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack	Not Applicable Not Applicable Not Applicable Not Applicable
Sea tra 14.1. 14.2. 14.3.	ansport (IMDG-Code / GC UN number UN proper shipping name Transport hazard class(es)	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit SVSee): NOT REGULATED F Not Applicable IMDG Class IMDG Subsidiary Hazard	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGEI Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable
Sea tra 14.1. 14.2. 14.3.	ansport (IMDG-Code / GG UN number UN proper shipping name Transport hazard	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit SVSee): NOT REGULATED I Not Applicable IMDG Class	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGEI Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable
Sea tra 14.1. 14.2. 14.3.	ansport (IMDG-Code / GC UN number UN proper shipping name Transport hazard class(es) Packing group	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit SVSee): NOT REGULATED F Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable Not Applicable	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGER Not Applicable Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable
Sea tra 14.1. 14.2. 14.3. 14.4. 14.5	ansport (IMDG-Code / GC UN number UN proper shipping name Transport hazard class(es) Packing group	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit SVSee): NOT REGULATED F Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGER Not Applicable Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable
Sea tra 14.1. 14.2. 14.3. 14.4. 14.5	ansport (IMDG-Code / GC UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit BVSee): NOT REGULATED F Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Not A	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGE Not Applicable Not Applicable Applicable Applicable	Not Applicable Not Applicable Not Applicable Not Applicable
Sea tra 14.1. 14.2. 14.3. 14.4. 14.5	ansport (IMDG-Code / GC UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit SVSee): NOT REGULATED I Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not A	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGEI Not Applicable Not Applicable Applicable Applicable Applicable Applicable	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS
Sea tra 14.1. 14.2. 14.3. 14.4. 14.5	ansport (IMDG-Code / GC UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit BVSee): NOT REGULATED F Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not A DN): NOT REGULATED FOR	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGE Not Applicable Not Applicable Applicable Applicable	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS
14.1. 14.2. 14.3. 14.4. 14.5.	ansport (IMDG-Code / GO UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit SVSee): NOT REGULATED I Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not A	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGEI Not Applicable Not Applicable Applicable Applicable Applicable Applicable	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS
14.1. 14.2. 14.3. 14.6. 14.6.	ansport (IMDG-Code / GC UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user I waterways transport (AI UN number UN proper shipping name	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit BVSee): NOT REGULATED F Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not A DN): NOT REGULATED FOR	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGEI Not Applicable Not Applicable Applicable Applicable Applicable Applicable	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS
14.1. 14.2. 14.3. 14.6. 14.6.	ansport (IMDG-Code / GC UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user I waterways transport (AI UN number UN proper shipping	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit BVSee): NOT REGULATED I Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not A DN): NOT REGULATED FOR	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGEI Not Applicable Not Applicable Applicable Applicable R TRANSPORT OF DANGEROU	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS
14.1. 14.2. 14.3. 14.6. 14.1. 14.2. 14.3.	ansport (IMDG-Code / GC UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user I waterways transport (AI UN number UN proper shipping name Transport hazard	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit BVSee): NOT REGULATED I Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not A DN): NOT REGULATED FOR Not Applicable Not Applicable	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGEI Not Applicable Not Applicable Applicable Applicable R TRANSPORT OF DANGEROU	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS
14.1. 14.2. 14.3. 14.4. 14.5. 14.6.	ansport (IMDG-Code / GC UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user I waterways transport (AI UN number UN proper shipping name Transport hazard class(es)	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit BVSee): NOT REGULATED F Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not A DN): NOT REGULATED FOR Not Applicable	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGEI Not Applicable Not Applicable Applicable Applicable R TRANSPORT OF DANGEROU	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS
14.1. 14.2. 14.3. 14.4. 14.5. 14.6.	ansport (IMDG-Code / GO UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user UN proper shipping name UN proper shipping name Transport hazard class(es) Packing group	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit BVSee): NOT REGULATED II Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not Applicable	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGEI Not Applicable Not Applicable Applicable Applicable R TRANSPORT OF DANGEROU	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS
Sea tra 14.1. 14.2. 14.3. 14.4. 14.5. 14.6. 14.1. 14.2. 14.3.	ansport (IMDG-Code / GO UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit Passenger and Cargo Limit BVSee): NOT REGULATED II Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not Applicable	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGER Not Applicable Not Applicable Applicable Applicable Applicable Applicable Applicable It is a transport of Dangerous in the part of the	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS
Sea tra 14.1. 14.2. 14.3. 14.4. 14.5. 14.6. 14.1. 14.2. 14.3.	ansport (IMDG-Code / GO UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user Waterways transport (AI UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit RVSee): NOT REGULATED F Not Applicable Not Applicable Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not Applicable Classification code Special provisions Not	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGER Not Applicable Not Applicable Applicable Applicable Applicable Applicable Ilicable R TRANSPORT OF DANGEROU	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS
Sea tra 14.1. 14.2. 14.3. 14.4. 14.5. 14.6. 14.1. 14.2. 14.3.	ansport (IMDG-Code / GO UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard	Passenger and Cargo Pack Passenger and Cargo Maxi Passenger and Cargo Limit RVSee): NOT REGULATED F Not Applicable Not Applicable Not Applicable Not Applicable PMS Number Special provisions Limited Quantities Not Applicable Classification code Special provisions Not Limited quantity Not	king Instructions imum Qty / Pack ted Quantity Packing Instructions ted Maximum Qty / Pack FOR TRANSPORT OF DANGER Not Applicable Not Applicable Applicable Applicable At TRANSPORT OF DANGEROU Ilicable It Applicable It Applicable It Applicable It Applicable It Applicable It Applicable	Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS

Part Number: **OR75316** Page **10** of **11**

Version No: 1.1

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Issue Date: **18/06/2024**Print Date: **31/10/2024**

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
3-((2- (Methacryloyloxy)ethyl)dimethylammonio)propane- 1-sulfonate	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
3-((2- (Methacryloyloxy)ethyl)dimethylammonio)propane- 1-sulfonate	Not Available

SECTION 15 Regulatory information

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

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

Additional Regulatory Information

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category

Not Available

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	No (3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate)
Canada - DSL	No (3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate)
Canada - NDSL	No (3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate)
China - IECSC	No (3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate)
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate)
Korea - KECI	No (3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate)
New Zealand - NZIoC	No (3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate)
Philippines - PICCS	Yes
USA - TSCA	No (3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate)
Taiwan - TCSI	Yes
Mexico - INSQ	No (3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate)
Vietnam - NCI	Yes
Russia - FBEPH	No (3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	18/06/2024
Initial Date	18/06/2024

Full text Risk and Hazard codes

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Part Number: OR75316 Page 11 of 11

Version No: 1.1

3-((2-(Methacryloyloxy)ethyl)dimethylammonio)propane-1-sulfonate

Issue Date: 18/06/2024 Print Date: 31/10/2024

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ► PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- ► TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
 ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ► ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ► NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
 TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Skin Corrosion/Irritation Category 2, H315	Expert judgement
Serious Eye Damage/Eye Irritation Category 2, H319	Expert judgement
Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H335	Expert judgement

Powered by AuthorITe, from Chemwatch,