



Safety Data Sheet

according to Australia WHS Regulations

Revision: 10 December 2020

1 Identification

- **Product identifier**
- **Trade name: Spede-Heat™ 37mm Short-Range Round, CS**
- **Product code:** 2002 (1011709)
- **Recommended use:** Crowd Control Device
- **Restrictions on use:** Contact manufacturer/supplier
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Safariland, LLC
13386 International Parkway
Jacksonville, FL 32218 USA
Customer Care (800) 347-1200
- **Importer/Distributor:**
Distributed within Australia by:
Aquaterro Advanced Product Supplies - ABN: 31 064 779 746
77 National Avenue
Pakenham, Victoria, 3810 Australia
Tel +61 (03) 9754 2922
Toll-Free 1300 TACTICAL (Australia)
- Distributed within Australia by:
Grycol International Pty Ltd
3 Zenith Business Park,
34 Alliance Avenue
Morisset, New South Wales 2264, Australia
- (Mailing Address)
P.O. Box 723
Morisset NSW 2264, Australia
Tel +61 2 4970 4377
Fax: +61 2 4913 5310
- **Emergency telephone number:**
ChemTel
1-800-526-4727 (North America)
1-314-985-1511 (International)
Emergencies within Australia - 131126 (NSW Poison Control Centre)
Emergencies within New Zealand - 0800 764 766 (National Poison Control Centre)

2 Hazard(s) Identification

- **Classification (Australia, New Zealand)**
Australia NOHSC – Hazardous Substance (Classified according to Worksafe Australia NOHSC 2018 National Code of Practice)
Australia ADG – Dangerous Goods (Classified according to National Transport Commission Australian Dangerous Goods Code)
- **Classification of the substance or mixture**
- Expl. 1.4 H204 Fire or projection hazard.
- Acute Tox. 3 H301 Toxic if swallowed.
- Acute Tox. 4 H312 Harmful in contact with skin.
- Acute Tox. 3 H331 Toxic if inhaled.

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- Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2A H319 Causes serious eye irritation.
 Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 STOT SE 3 H335 May cause respiratory irritation.

· **Additional information:**

There are no other hazards not otherwise classified that have been identified.
 0 % of the mixture consists of component(s) of unknown toxicity.

· **Hazard pictograms**



GHS01 GHS06 GHS08

· **Signal word** Danger

· **Hazard statements**

- H204 Fire or projection hazard.
 H301 Toxic if swallowed.
 H312 Harmful in contact with skin.
 H331 Toxic if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.

· **Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P250 Do not subject to grinding/shock/friction.
 P261 Avoid breathing dust.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P284 Wear respiratory protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P321 Specific treatment - See Section 4 of this Safety Data Sheet.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 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 CENTRE/doctor if you feel unwell.
 P330 Rinse mouth.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTRE/doctor.
 P370+P380 In case of fire: Evacuate area.
 P372 Explosion risk in case of fire.

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P373	DO NOT fight fire when fire reaches explosives.
P401	Store in accordance with local/regional/national/international regulations.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Contains [(2-chlorophenyl)methylene]malononitrile. May produce an allergic reaction.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Explosive Product Notice**









PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that they are dealing with a powerful force and that various devices and methods have been developed to assist them in directing this force. They should realize that this force, if misdirected, may either kill or injure both themselves and their fellow workers.

WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, they should consult the manufacturer before use.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Components:**

2698-41-1	[(2-chlorophenyl)methylene]malononitrile	10-30%
	 Acute Tox. 3, H301; Acute Tox. 2, H330  Resp. Sens. 1, H334; STOT RE 2, H373  Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
3811-04-9	potassium chlorate	10-30%
	 Ox. Liq. 1, H271; Ox. Sol. 1, H271  Acute Tox. 4, H302; Acute Tox. 4, H332	
57-50-1	Sucrose, pure	10-30%
9004-70-0	Nitrocellulose, colloided, granular	10-30%
	 Expl. 1.1, H201	
546-93-0	Magnesium carbonate	10-30%
7757-79-1	Potassium nitrate	<10%
	 Ox. Sol. 2, H272	
7440-21-3	Silicon	<10%
	 Flam. Sol. 2, H228	

· **Additional information:**

For the wording of the listed Hazard Statements refer to section 16.

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For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.

· Notable Trace Components (< 0,1% w/w)

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate
	<ul style="list-style-type: none">  Unst. Expl., H200  Repr. 1A, H360; STOT RE 2, H373  Acute Tox. 4, H302; Acute Tox. 4, H332
592-87-0	lead dithiocyanate
	<ul style="list-style-type: none">  Repr. 1A, H360Df; STOT RE 2, H373  Acute Tox. 4, H302; Acute Tox. 4, H332

4 First Aid Measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.
 Take affected persons out into the fresh air.
 Do not leave affected persons unattended.
 Remove breathing equipment only after contaminated clothing have been completely removed.

· After inhalation:

Seek immediate medical advice.
 Remove victim to fresh air.
 Provide oxygen treatment if affected person has difficulty breathing.
 In case of irregular breathing or respiratory arrest provide artificial respiration.

· After skin contact:

Immediately remove any clothing soiled by the product.
 Brush off loose particles from skin.
 Immediately wash with water and soap and rinse thoroughly.
 If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.
 Do not induce vomiting; call for medical help immediately.

· Most important symptoms and effects, both acute and delayed

Asthma attacks
 Blast injury if mishandled.
 Allergic reactions
 May cause respiratory irritation.
 Breathing difficulty
 Coughing
 Causes eye irritation.
 Irritant to skin and mucous membranes.

· Hazards:

Explosive crush or blast injury.
 Harmful in contact with skin.
 Danger of impaired breathing.

· Indication of any immediate medical attention and special treatment needed

Product may produce physical injury if mishandled. Treatment of these injuries should be based on the

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blast and compression effects.

Contains [(2-chlorophenyl)methylene]malononitrile. May produce an allergic reaction.

Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

In cases of irritation to the lungs, initial treatment with corticosteroid inhalants.

Monitor circulation, possible shock treatment.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

5 Fire Fighting Measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.

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

- **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

Product may explode if burned in confined space. Individual cartridges may explode. Mass explosion of many cartridges at once is unlikely.

- **Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information:**

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water spray.

Evacuate area and fight fire from from the upwind side.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions.

Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning

material may produce toxic and irritating vapours. In unusual cases, shrapnel may be thrown from

exploding devices under containment. See Emergency Response Guidebook for further information.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTEL AT 1-800-255-3924. Spills of this material should be handled carefully. Do not subject materials to mechanical shock or extreme heat. A spill of this material will normally not require emergency response team capabilities.

Isolate area and prevent access.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Ensure adequate ventilation

Protect from heat.

- **Environmental precautions** No special measures required.

- **Methods and material for containment and cleaning up**

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Pick up mechanically.
 Dispose contaminated material as waste according to section 13.
 Clean the affected area carefully; suitable cleaners are:
 Warm water and cleansing agent
 Send for recovery or disposal in suitable receptacles.

· **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.

7 Handling and Storage

· **Handling:**

· **Precautions for safe handling**

Handle with care. Avoid jolting, friction and impact.
 Avoid breathing dust.
 Use only in well ventilated areas.

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

Protect from heat.
 Keep respiratory protective device available.
 Emergency cooling must be available in case of nearby fire.

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

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

Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.
 Store away from flammable substances.

· **Further information about storage conditions:** Store in dry conditions.

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

8 Exposure controls and personal protection

· **Control parameters**

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

2698-41-1 [(2-chlorophenyl)methylene]malononitrile

WES (Australia)	Peak limitation: 0.39 mg/m ³ , 0.05 ppm Sk
PEL (USA)	Long-term value: 0.4 mg/m ³ , 0.05 ppm
REL (USA)	Peak limitation: 0.4 mg/m ³ , 0.05 ppm Skin
TLV (USA)	Peak limitation: 0.39* mg/m ³ , 0.05* ppm *inhalable fraction and vapor; Skin
WES (New Zealand)	Peak limitation: 0.39 mg/m ³ , 0.05 ppm skin

57-50-1 Sucrose, pure

WES (Australia)	Long-term value: 10 mg/m ³
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PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	Long-term value: 10 mg/m ³
WES (New Zealand)	Long-term value: 10 mg/m ³
546-93-0 Magnesium carbonate	
WES (Australia)	Long-term value: 10 mg/m ³
PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	TLV withdrawn
WES (New Zealand)	Long-term value: 10 mg/m ³
7440-21-3 Silicon	
WES (Australia)	Long-term value: 10 mg/m ³
PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	TLV withdrawn
WES (New Zealand)	Long-term value: 10 mg/m ³

- **Exposure controls**

- **Engineering measures** Provide adequate ventilation.

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- **Respiratory protection:**



Respiratory protection required.

Wear positive pressure NIOSH or European EN149 vapor respirators when deploying product in large quantities.

- **Protection of hands:**



Protective gloves

Wear gloves when handling deployed rounds.

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.

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- **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.

- **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:**



Safety glasses

- **Body protection:** Protective work clothing

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

No further relevant information available.

- **Risk management measures:**

See Section 7 for additional information.

Organizational measures should be in place for all activities involving this product.

No further relevant information available.

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **Appearance**

Form: Solid metal container containing liquid and solid contents.

Colour: According to product specification

- **Odour:** Odourless

- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

- **Melting point/freezing point:** Not determined.

- **Initial boiling point and boiling range:** Not determined.

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Not determined.

- **Auto/Self-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Explosive properties:** Heating may cause an explosion.

- **Explosion limits**

Lower: Not determined.

Upper: Not determined.

- **Oxidising properties** Contains oxidizing agent.

- **Vapour pressure:** Not applicable.

- **Density:** Not determined.

- **Relative density:** Not determined.

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- | | |
|--|--|
| · Vapour density: | Not applicable. |
| · Evaporation rate: | Not applicable. |
| · Solubility in / Miscibility with water: | Insoluble. |
| · Partition coefficient: n-octanol/water: | Not determined. |
| · Viscosity | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · Other information | No further relevant information available. |

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Danger of explosion.
Toxic fumes may be released if heated above the decomposition point.
Contact with acids releases toxic gases.
Acts as an oxidising agent on organic materials such as wood, paper and fats.
Reacts with strong alkali.
- **Conditions to avoid** Sources of ignition, open flame, incompatible materials.
- **Incompatible materials** No further relevant information available.
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Nitrogen oxides
Sulphur oxides (SOx)

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity:**
Toxic if inhaled.
Toxic if swallowed.
Harmful in contact with skin.

· LD/LC50 values relevant for classification:

2698-41-1 [(2-chlorophenyl)methylene]malononitrile

Oral	LD50	178 mg/kg (rat)
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3811-04-9 potassium chlorate

Oral	LD50	1870 mg/kg (rat)
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7440-21-3 Silicon

Oral	LD50	3160 mg/kg (rat)
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- **Primary irritant effect**
Effects based on exposure to dusts/mists/spray/vapours released during deployment. Unused product does not possess these effects.
- **Skin corrosion/irritation:** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation:** Causes eye irritation.
- **Respiratory or skin sensitisation:** May cause sensitisation by inhalation and skin contact.

· **IARC (International Agency for Research on Cancer):**

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate	2B
592-87-0	lead dithiocyanate	2A

· **Probable routes of exposure:**

Ingestion.
Inhalation.
Eye contact.
Skin contact.

· **Acute effects (acute toxicity, irritation and corrosivity):**

Explosive crush or blast injury.
Irritating to eyes, respiratory system and skin.
Harmful in contact with skin.
Toxic if swallowed or if inhaled.

· **Repeated dose toxicity:** Repeated exposures may result in skin and/or respiratory sensitivity.

· **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:** May cause respiratory irritation.

· **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.

12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**

The product contains materials that are harmful to the environment.

2698-41-1 [(2-chlorophenyl)methylene]malononitrile

EC50 | 0.2-0.3 mg/kg (Oncorhynchus mykiss)

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** May be accumulated in organism

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary

Harmful to aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term

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damage of the environment can not be excluded.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system. After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· **DOT, ADG, IMDG, IATA**

UN0301

· **UN proper shipping name**

· **DOT**

Ammunition Tear-producing with burster, expelling charge or propelling charge

· **ADG**

0301 Ammunition Tear-producing with burster, expelling charge or propelling charge

· **IMDG, IATA**

Ammunition Tear-producing with burster, expelling charge or propelling charge

· **Transport hazard class(es)**

· **DOT**



· **Class**

1.4

· **Label**

1.4G+6.1+8

· **ADG, IMDG**



· **Class**

1.4

· **Label**

1.4G+6.1+8

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· IATA



· Class 1.4G
 · Label 1.4G+6.1+8

· Packing group II
 · DOT, ADG, IMDG, IATA

· Environmental hazards:
 · Marine pollutant: No

· Special precautions for user Not applicable.
 · EMS Number: F-A, S-Q

· Transport in bulk according to Annex II of
 Marpol and the IBC Code Not applicable.

15 Regulatory information

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

· IARC (International Agency for Research on Cancer)

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate	2B
592-87-0	lead dithiocyanate	2A

· Australia

· Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

3811-04-9	potassium chlorate	S2, S5
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· Australia: Priority Existing Chemicals

None of the ingredients are listed.

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

H200 Unstable explosives.
 H201 Explosive; mass explosion hazard.
 H228 Flammable solid.
 H271 May cause fire or explosion; strong oxidiser.
 H272 May intensify fire; oxidiser.
 H301 Toxic if swallowed.

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- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H360 May damage fertility or the unborn child.
- H360Df May damage the unborn child. Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 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, Bio-accumulable, Toxic
 vPvB: very Persistent and very Bioaccumulative
 Expl. 1.1: Explosives – Division 1.1
 Expl. 1.4: Explosives – Division 1.4
 Flam. Sol. 2: Flammable solids – Category 2
 Ox. Liq. 1: Oxidizing liquids – Category 1
 Ox. Sol. 1: Oxidizing solids – Category 1
 Ox. Sol. 2: Oxidizing solids – Category 2
 Acute Tox. 3: Acute toxicity - oral – Category 3
 Acute Tox. 4: Acute toxicity - oral – Category 4
 Acute Tox. 2: Acute toxicity - inhalation – Category 2
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 Resp. Sens. 1: Respiratory sensitisation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2