



# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

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

### · Product identifier

· Trade name: **CS Solution**

· Product code: 9905 (1181674)

· Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance / the mixture: Incapacitating agent.

· Uses advised against: Contact manufacturer.

### · Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

Safariland, LLC

13386 International Parkway

Jacksonville, FL 32218

Customer Care (800) 347-1200

Distributed within Australia by:

Grycol International Pty Ltd

(Physical Address)

344 Botany Road,

Alexandria, NSW 2015 Australia

(Mailing Address)

P.O. Box 6123 SSBH

Alexandria NSW 2015 Australia

Ph: + 61 2 9698 8725

Fax: +61 2 9319 0732

· Further information obtainable from: Customer Care Department

· Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

Emergencies within Australia - 131126 (NSW Poison Control Centre)

Emergencies within New Zealand - 0800 764 766 (National Poison Control Centre)

## 2 Hazards identification

### · Classification (Australia, New Zealand)

Australia ADG – Dangerous Goods (Classified according to National Transport Commission Australian Dangerous Goods Code)

Australia NOHSC – Hazardous Substance (Classified according to Worksafe Australia NOHSC 2011 National Code of Practice)

New Zealand HSNO - Hazardous (Classified according to the Minimum Degrees of Hazard Regulations 2001)

### · Hazard statements (New Zealand HSNO Classification)

HSNO 6.1C Inh. Tox. 3 H331 Toxic if inhaled.

HSNO 6.1D Oral Tox. 4 H302 Harmful if swallowed.

(Cont'd. on page 2)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

**Trade name: CS Solution**

(Cont'd. from page 1)

HSNO 6.1E	STOT SE 3	H335	May cause respiratory irritation.
HSNO 6.3A	Skin Irr. 2	H315	Causes skin irritation.
HSNO 6.4A	Eye Irrit. 2A	H319	Causes serious eye irritation.
HSNO 6.5A	Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
HSNO 6.5B	Skin Sens. 1	H317	May cause an allergic skin reaction.
HSNO 6.7B	Carc.. 2	H351	Suspected of causing cancer.
HSNO 6.9B	STOT SE 3	H336	May cause drowsiness or dizziness.
HSNO 6.9B	STOT SE2	H371	May cause damage to organs (inhalation).
HSNO 9.1D	Aquatic Acute 2	H401	Toxic to aquatic life.
HSNO 9.3B		H432	Toxic to terrestrial vertebrates.

- **GHS label elements**

Classifications listed also are applicable to the Australian and the New Zealand Codes of Practice for the writing of Safety Data Sheets.

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**

Required for New Zealand.

GHS09



GHS06 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

dichloromethane

[(2-chlorophenyl)methylene]malononitrile

- **Hazard statements**

The following Hazard Statements are only applicable to New Zealand, and are not applicable to Australia: H371, H401, H432.

H371	May cause damage to organs (inhalation).
H432	Toxic to terrestrial vertebrates.
H302	Harmful if swallowed.
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.
H351	Suspected of causing cancer.
H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
H401	Toxic to aquatic life.

- **Precautionary statements**

The following Precautionary Statements are applicable only to New Zealand and not to Australia: H273.

P284 is not legally required, yet has been added as product is designed to be aerosolised.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

(Cont'd. on page 3)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

**Trade name: CS Solution**

(Cont'd. from page 2)







P284	[In case of inadequate ventilation] wear respiratory protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards** There are no other hazards not otherwise classified that have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**

- **Components:**

75-09-2	dichloromethane  Carc. 2, H351  Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H336	> 60%
2698-41-1	[(2-chlorophenyl)methylene]malononitrile  Acute Tox. 3, H301; Acute Tox. 2, H330  Resp. Sens. 1, H334  Aquatic Acute 1, H400  Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	10-30%

- **Additional information:**

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

(Cont'd. on page 4)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

Trade name: CS Solution

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

(Cont'd. from page 3)

## 4 First aid measures

- **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.

Take affected persons out into the fresh air.

- **After inhalation:**

Supply fresh air.

Seek immediate medical advice.

Provide oxygen treatment if affected person has difficulty breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

- **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye at least 15 minutes under running water.

Seek immediate medical advice.

- **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

Irritating to eyes, respiratory system and skin.

Breathing difficulty

Dizziness

Coughing

Allergic reactions

Gastric or intestinal disorders when ingested.

Disorientation

- **Hazards:**

Danger of impaired breathing.

Harmful if swallowed.

Toxic if inhaled.

Suspected of causing cancer.

May cause drowsiness or dizziness.

- **Indication of any immediate medical attention and special treatment needed**

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

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary oedema.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

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

(Cont'd. on page 5)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

**Trade name: CS Solution**

(Cont'd. from page 4)

If medical advice is needed, have product container or label at hand.  
In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

## 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
The product is not flammable.  
Use fire extinguishing methods suitable to surrounding conditions.
- **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.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:**  
In case of fire involving large quantities, evacuate area and fight fire from the upwind side.  
Cool endangered receptacles with water fog or haze.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
Keep people at a distance and stay on the windward side.  
Particular danger of slipping on leaked/spilled product.  
Ensure adequate ventilation  
Isolate area and prevent access.
- **Environmental precautions** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
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.

(Cont'd. on page 6)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

Trade name: CS Solution

(Cont'd. from page 5)

## 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Containers of this material may be hazardous when empty since they retain product residues (dust, solids).

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

- **Information about fire - and explosion protection:** Keep respiratory protective device available.

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

- **Storage:**

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

Store only in the original receptacle.

Provide ventilation for receptacles.

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

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

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

Store away from foodstuffs.

Do not store together with oxidising and acidic materials.

- **Further information about storage conditions:**

Keep container tightly sealed.

Store in a cool place.

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

## 8 Exposure controls/personal protection

- **Control parameters**

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

**75-09-2 dichloromethane**

WES (Australia)	Long-term value: 174 mg/m <sup>3</sup> , 50 ppm Sk
PEL (USA)	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 174 mg/m <sup>3</sup> , 50 ppm BEI
WES (New Zealand)	Long-term value: 174 mg/m <sup>3</sup> , 50 ppm suspected carcinogen

(Cont'd. on page 7)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

**Trade name: CS Solution**

(Cont'd. from page 6)

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

WES (Australia)	Peak limitation: 0.39 mg/m <sup>3</sup> , 0.05 ppm Sk
PEL (USA)	Long-term value: 0.4 mg/m <sup>3</sup> , 0.05 ppm
REL (USA)	Peak limitation: 0.4 mg/m <sup>3</sup> , 0.05 ppm Skin
TLV (USA)	Peak limitation: 0.39 mg/m <sup>3</sup> , 0.05 ppm Skin
WES (New Zealand)	Peak limitation: 0.39 mg/m <sup>3</sup> , 0.05 ppm skin

- **DNELs:** No further relevant information available.
- **PNECs:** No further relevant information available.

· **Ingredients with biological limit values:****75-09-2 dichloromethane**

BEI (USA)	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
-----------	---------------------------------------------------------------------------------------------------

· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

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

· **Protection of hands:**

Protective gloves

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

· **Eye protection:**

Contact lenses should not be worn.

(Cont'd. on page 8)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

Trade name: CS Solution

(Cont'd. from page 7)



Safety glasses

- **Body protection:**  
Protective work clothing  
Protection may be required for spills.
- **Limitation and supervision of exposure into the environment:**  
No further relevant information available.
- **Risk management measures:**  
Organizational measures should be in place for all processing activities involving this material. Specialist advice recommended.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · Appearance

Form:	Liquid
Colour:	Red
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value:	Not determined.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.

· Flash point: >94 °C (>201 °F)

· Flammability (solid, gaseous): Not applicable.

· Auto/Self-ignition temperature: >260 °C (>500 °F)

· Decomposition temperature: Not determined.

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

#### · Explosion limits

Lower:	Not determined.
Upper:	Not determined.

· Oxidising properties: Not determined.

· Vapour pressure at 20 °C (68 °F): 400 - 500 hPa (300 - 375 mm Hg) (Estimate)

· Density:	Not determined.
· Relative density:	Not determined.
· Vapour density:	Not determined.
· Evaporation rate:	Not determined.

· Solubility in / Miscibility with water: Partly miscible.

(Cont'd. on page 9)



# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

Trade name: CS Solution

(Cont'd. from page 8)

- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
Reacts with certain metals.  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with alkali, amines and strong acids.  
Reacts with strong oxidising agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials** No further relevant information available.
- **Hazardous decomposition products**  
Carbon monoxide and carbon dioxide  
Chlorine compounds  
Hydrogen chloride (HCl)  
Chlorine

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

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

### ATE (Acute Toxicity Estimates)

Oral	LD50	800-1250 mg/kg (rat)
Dermal	LD50	>5000 mg/kg
Inhalative	LC50/4h	3-6 mg/l (Acute Toxicity Estimate - Vapour)

### 75-09-2 dichloromethane

Oral	LD50	> 2000 mg/kg (rat)
Inhalative	LC50/4h	88 mg/l (rat)

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

Oral	LD50	178 mg/kg (rat)
------	------	-----------------

(Cont'd. on page 10)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

Trade name: CS Solution

(Cont'd. from page 9)

- **Primary irritant effect**
- **Skin corrosion/irritation:** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation:** Irritating effect.
- **Respiratory or skin sensitisation:**  
Contains [(2-chlorophenyl)methylene]malononitrile. May produce an allergic reaction.  
May cause sensitisation by inhalation and skin contact.

· <b>IARC (International Agency for Research on Cancer):</b>		
75-09-2	dichloromethane	2B

- **Probable routes of exposure:**

Ingestion.

Inhalation

Eye contact.

Skin contact.

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

Harmful if swallowed.

Toxic if inhaled.

Irritating to eyes, respiratory system and skin.

Vapours have narcotic effect.

- **Repeated dose toxicity:**

May cause sensitisation by inhalation and skin contact.

Suspected of causing cancer.

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

Carc. 2

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

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

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

## 12 Ecological information

- **Toxicity**

· <b>Aquatic toxicity:</b>	
<b>2698-41-1</b>	<b>[(2-chlorophenyl)methylene]malononitrile</b>
EC50	0.2-0.3 mg/kg (Oncorhynchus mykiss)

- **Persistence and degradability** Not easily biodegradable.

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

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

- **Additional ecological information:**

- **General notes:**

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.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

(Cont'd. on page 11)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

Trade name: CS Solution

(Cont'd. from page 10)

- **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.

- **Uncleaned packaging:**

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

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

- **UN-Number**

- **DOT, ADG, IMDG, IATA**

UN1693

- **UN proper shipping name**

- **DOT, IATA**

Tear gas substances, liquid, n.o.s. ([[2-chlorophenyl)methylene]malononitrile, Dichloromethane)

- **ADG**

1693 TEAR GAS SUBSTANCE, LIQUID, N.O.S. ([[2-chlorophenyl)methylene]malononitrile, DICHLOROMETHANE)

- **IMDG**

TEAR GAS SUBSTANCE, LIQUID, N.O.S. ([[2-chlorophenyl)methylene]malononitrile, DICHLOROMETHANE)

- **Transport hazard class(es)**

- **DOT**



- **Class**

6.1 Toxic substances.

- **Label**

6.1

- **ADG**



- **Class**

6.1 (T1) Toxic substances.

(Cont'd. on page 12)

# Safety Data Sheet



According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

**Trade name: CS Solution**

(Cont'd. from page 11)

· <b>Label</b>	6.1
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	6.1 Toxic substances.
· <b>Label</b>	6.1
· <b>Packing group</b>	
· <b>DOT, ADG, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Toxic substances.
· <b>Danger code (Kemler):</b>	60
· <b>EMS Number:</b>	F-A,S-A
· <b>Segregation groups</b>	Liquid halogenated hydrocarbons
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADG</b>	
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>IATA</b>	
	
	Cargo Aircraft Only.

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

75-09-2 dichloromethane

(Cont'd. on page 13)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

Trade name: CS Solution

(Cont'd. from page 12)

· <b>TSCA (Toxic Substances Control Act):</b>	
All ingredients are listed.	
· <b>Carcinogenic Categories</b>	
· <b>IARC (International Agency for Research on Cancer)</b>	
75-09-2	dichloromethane <span style="float: right;">2B</span>
· <b>Australia</b>	
· <b>Australian Inventory of Chemical Substances</b>	
75-09-2	dichloromethane
25956-17-6	FD&C RED #40 Dye
· <b>Standard for the Uniform Scheduling of Medicines and Poisons</b>	
75-09-2	dichloromethane <span style="float: right;">S5</span>
· <b>New Zealand</b>	
· <b>HSNO Chemical Classification and Information Database (CCID)</b>	
75-09-2	dichloromethane
· <b>New Zealand Inventory of Chemicals (NZIOC)</b>	
All ingredients are listed.	
· <b>Other regulations, limitations and prohibitive regulations</b>	
· <b>Substances of very high concern (SVHC) according to REACH, Article 57</b>	
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**

- H301 Toxic if swallowed.

- H312 Harmful in contact with skin.

- H315 Causes skin irritation.

- H317 May cause an allergic skin reaction.

- H319 Causes serious eye irritation.

- H330 Fatal if inhaled.

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- H335 May cause respiratory irritation.

- H336 May cause drowsiness or dizziness.

- H351 Suspected of causing cancer.

- H400 Very toxic to aquatic life.

- **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

(Cont'd. on page 14)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 03 August 2016

Revision: 03 August 2016

**Trade name: CS Solution**

(Cont'd. from page 13)

CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
LDLo: Lowest Lethal Dose Observed  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 2: Acute toxicity – 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  
Carc. 2: Carcinogenicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

**Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))  
Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6  
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: [www.chemtelinc.com](http://www.chemtelinc.com)