

## SAFETY DATA SHEET 2025

### SECTION 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

<b>Product Name</b>	: ShieldChlor-Rid
<b>Other means of Identification</b>	: None
<b>Recommended Use</b>	: Industrial uses.
<b>Restrictions on Use</b>	: No relevant information available.
<b>Supplier's Information</b>	
<b>Name</b>	: ShieldCrete® International
<b>Company Name</b>	: ShieldCrete® International Sdn Bhd
<b>Address</b>	: No. 14, Jalan Anggerik Mokara 31/60, Kota Kemuning Industry Area, 40460 Shah Alam, Selangor, Malaysia
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### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture:

Acute Tox. 4	H332	Harmful if inhaled.
Skin Corr. 1C	H314	Causes severe skin burns and eye damage.
Eye Dam. 1	H318	Causes serious eye damage.
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.

#### Label Elements

**GHS Label Element:** The product is classified and labeled according to the Globally Harmonized System (GHS).

<b>Hazard Pictograms:</b>	GHS05	GHS07	GHS08
			

**Signal Word:** **Danger**

**Other Hazards:** There are no other hazards not otherwise classified that have been identified.

#### Hazard Statements:

<b>H332</b>	Harmful if inhaled.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H317</b>	May cause an allergic skin reaction.
<b>H335</b>	May cause respiratory irritation.

#### Precautionary Statement(s) Prevention:





<b>P260</b>	Do not breathe mist/vapors/spray.
<b>P264</b>	Wash thoroughly after handling.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P272</b>	Contaminated work clothing must not be allowed out of the workplace.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection.

<b>P285</b>	In case of inadequate ventilation wear respiratory protection.
<b>P301+P330+P331</b>	If swallowed: Rinse mouth. Do NOT induce vomiting.
<b>P303+P361+P353</b>	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
<b>P304+P340</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P310</b>	Immediately call a poison center/doctor.
<b>P333+P313</b>	If skin irritation or rash occurs: Get medical advice/attention.
<b>P342+P311</b>	If experiencing respiratory symptoms: Call a poison center/doctor.
<b>P335+P334</b>	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
<b>P342+P311</b>	If experiencing respiratory symptoms: Call a poison center/doctor.
<b>P363</b>	Wash contaminated clothing before reuse.
<b>P403+P233</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>P405</b>	Store locked up.
<b>P501</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 3: COMPOSITES / INFORMATION ON INGREDIENTS

**Chemical Characterization:** Mixtures

**Components:** Hazards and classifications provided are of the pure components.

INGREDIENTS	WEIGHT %	CAS No.
2-Dimethylaminoethanol  Flam. Liq. 3, H226  Acute Tox. 3, H331  Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335	10 - 25	108-01-0
Disodium Peroxodisulphate  Ox. Sol. 3, H272  Resp. Sens. 1, H334  Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	<3	7775-27-1

**Additional Information:**

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

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

### SECTION 4: FIRST AID MEASURES

**Description of First Aid Measures**

<b>Inhalation:</b>	Supply fresh air. Consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing.
<b>Ingestion:</b>	Rinse out mouth and then drink plenty of water. Do not induce vomiting, immediately call for medical help.
<b>Eye Contact:</b>	Remove contact lenses if worn, if possible. Rinse opened eye for several minutes under running water. Then consult a doctor.
<b>Skin Contact:</b>	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. Seek medical treatment if any skin damage has occurred.

**Most important symptoms and effects, both acute and delayed:**

- Caustic effect on skin and mucous membranes
- Allergic reactions
- Cramp
- Dizziness
- Gastric or intestinal disorders
- Coughing
- Nausea
- Breathing difficulty

**Danger:**

- Danger of gastric perforation.
- Causes serious eye damage.
- Harmful if inhaled.
- May be harmful if swallowed.
- May be harmful in contact with skin.

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

- Contains disodium peroxodisulphate. May produce an allergic reaction.
- Severe allergic skin reactions, bronchial spasms and anaphylactic shock are possible.
- Treat skin and mucous membrane with antihistamine and corticoid preparations.
- In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.
- Medical supervision for at least 48 hours.
- Monitor circulation.
- Later observation for pneumonia and pulmonary edema.

## SECTION 5: FIRE FIGHTING MEASURES

**Extinguishing Media**
**Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder, or water spray. Fight larger fires with water spray.

**For safety reasons unsuitable extinguishing agents:**

Water stream.

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

Formation of toxic gases is possible during heating or in case of fire.

**Advice for Firefighters**

**Protective equipment:** Wear fully protective suit.  
 Wear self-contained respiratory protective device.  
 Do not inhale explosion gases or combustion gases.

**Additional Information:** Eliminate all ignition sources if safe to do so.  
 Cool endangered product with water spray.

## SECTION 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.  
 Ensure adequate ventilation.

**Environmental Precautions:**

Avoid release to the environment.

**Methods and Material for Containment and Cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Send for recovery or disposal in suitable receptacles.

**Reference to other sections:**

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

**SECTION 7: HANDLING AND STORAGE****Handling****Precautions for safe handling:**

Open and handle receptacle with care.  
 Use only in well ventilated areas.  
 Keep receptacles tightly sealed.  
 Avoid breathing mist, vapors, or spray.  
 Avoid contact with the eyes and skin.

**Information about protection against explosions and fires:**

No special measures required.

**Conditions for Safe Storage, including any Incompatibilities****Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well-sealed receptacles.

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

Store away from foodstuffs.  
 Do not store together with oxidizing and acidic materials.

**Further information about storage conditions:**

Store receptacle in a well-ventilated area.

**Specific end use(s):**



No relevant information available.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****Control Parameters****Components with limit values that require monitoring at the workplace:**

Ingredient	CAS No.		
2-Dimethylaminoethanol	108-01-0	EV (Canada)	Short-term value: 22 mg/m <sup>3</sup> , 6 ppm Long-term value: 11 mg/m <sup>3</sup> , 3 ppm
Disodium Peroxodisulphate	7775-27-1	TLV (USA) EL (Canada) EV (Canada)	Long-term value: 0.1 mg/m <sup>3</sup> as persulfates Long-term value: 0.1 mg/m <sup>3</sup> as persulfate Long-term value: 0.1 mg/m <sup>3</sup>

**Exposure Controls:**

<b>General Protective and Hygienic Measures</b>	The usual precautionary measures for handling chemicals should be followed. 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.
<b>Engineering Controls</b>	No relevant information available.
<b>Breathing Equipment</b>	Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

<b>Hands Protection</b>		Protective gloves: The glove material must be impermeable and resistant to the product / the substance / the preparation.
<b>Eye Protection</b>		Safety glasses
<b>Body Protection</b>		Protective work clothing.

**Limitation and supervision of exposure into the environment:** No relevant information available.

**Risk management measures:** No relevant information available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

<b>Appearance Form</b>	Liquid
<b>Color</b>	Clear to straw color
<b>Odor</b>	Amine-like
<b>Odor Threshold</b>	Not determined
<b>pH Value</b>	10.4
<b>Melting Point / Melting Range</b>	Not determined
<b>Boiling Point / Boiling Range</b>	Not determined
<b>Flash Point</b>	>100°C (>212°F)
<b>Flammability (solid, gaseous)</b>	Not applicable
<b>Auto-ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Danger of explosion</b>	Product does not present an explosion hazard
<b>Explosion Limits - Lower</b>	Not determined
<b>Explosion Limits - Upper</b>	Not determined
<b>Oxidizing Properties</b>	Non-oxidizing
<b>Vapor Pressure</b>	Not determined
<b>Relative Density</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Solubility in / Miscibility with water</b>	Soluble
<b>Partition Coefficient (N-octanol/water)</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Kinematic Viscosity</b>	Not determined
<b>Other information</b>	No relevant information available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No relevant information available.

### Chemical Stability

**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**Possibility of hazardous reactions:** Reacts with strong acids and oxidizing agents.

**Conditions to avoid:** Excessive heat

**Incompatible materials:** Oxidizers, Strong acids

**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide, Nitrogen oxides, Sulfur oxides (SOx)

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

**Acute Toxicity:** Harmful if inhaled.  
 May be harmful if swallowed.  
 May be harmful in contact with skin.

### LD/LC50 values that are relevant for classification:

2-Dimethylaminoethanol			
CAS No.: 108-01-0	Oral	LD50	1182 mg/kg (rat) 1220 mg/kg (rat, female)
	Dermal	LD50	1370 mg/kg (rabbit)
	Inhalative	LC50/4h	3.25 mg/l (mouse)
Disodium Peroxodisulphate			
CAS No.: 7775-27-1	Oral	LD50	742 mg/kg (rat)
	Dermal	LD50	>2000 mg/kg (rat)
	Inhalative	LC50/4h	>5.1 mg/l (rat)

### Primary Irritant Effect

**On skin contact:** Mild caustic effect on skin and mucous membranes.  
**On the eye:** Mild caustic effect.  
**Sensitization:** May cause sensitization by inhalation and skin contact.

**IARC (International Agency for Research on Cancer):** None of the ingredients are listed.

**NTP (National Toxicology Program):** None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration):** None of the ingredients are listed.

**Probable Route(s) of Exposure:** Ingestion – Inhalation – Eye Contact – Skin Contact

**Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

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

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

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

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

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Aquatic toxicity:** No relevant information available.  
**Persistence and degradability:** No relevant information available.  
**Bioaccumulative potential:** No relevant information available.  
**Mobility in soil:** No relevant information available.

### Additional Ecological Information

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

### Results of PBT and vPvB Assessment

**PBT:** Not applicable.  
**vPvB:** Not applicable.  
**Other adverse effects:** Not applicable.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

**Recommendation:** 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 non-hazardous wastes.

### Uncleaned Packaging

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

**Recommended cleansing agent:** Water, if necessary, with cleansing agents.

## SECTION 14: TRANSPORT INFORMATION

### UN Number

**DOT, ADR, IMDG, IATA:** UN2735

### UN Proper Shipping Name

**DOT, IATA:** Amines, liquid, corrosive, n. o. s. (2-dimethylaminoethanol)

**ADR, IMDG:** AMINES, LIQUID, CORROSIVE, N.O.S. (2-dimethylaminoethanol)

### Transport Hazard Class(es)

**DOT:**  **Class:** 8  
**Label:** 8

**ADR:**  **Class:** 8 (C7)  
**Label:** 8

**IMDG, IATA:**  **Class:** 8  
**Label:** 8

### Packing Group

**DOT, ADR, IMDG, IATA:** III

**Environmental Hazards:** Not applicable

### Special Precautions for User

**Warning:** Corrosive substances


**Danger code (Kemler):** 80


**EMS number:** F-A, S-B


**Segregation groups:** Alkalis


**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

### Transport/Additional information

**DOT:**  Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

**ADR:**  Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

**IMDG:**  Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

**IATA:**  Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 L net.

## SECTION 15: REGULATORY INFORMATION

### Safety, Health, and Environmental Regulations / Legislation specific for the Substance or Mixture

#### United States (USA)

SARA

Section 302 (extremely hazardous substances): None of the ingredients are listed.

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

#### Proposition 65 (California)

Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause developmental toxicity for females: None of the ingredients are listed.

Chemicals known to cause developmental toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

EPA (Environmental Protection Agency): None of the ingredients are listed.

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

#### Canadian Domestic Substances List (DSL) (Substances not listed)

108-01-0 2-dimethylaminoethanol

7775-27-1 Disodium peroxodisulphate

7732-18-5 Water

## SECTION 16: OTHER INFORMATION

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

#### 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

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

OSHA: Occupational Safety & Health Administration

Flam. Liq. 3: Flammable liquids – Category 3

Ox. Sol. 2: Oxidizing solids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

#### 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: 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