

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Zerust[®] Axxanol[™] Z-Maxx LV
Synonyms : Axxanol Z-Maxx LV #0, Z-Maxx LV
Other means of identification : EU SDS: 10-138.a

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

Use of the substance/mixture : Corrosion inhibitors

1.3. Details of the supplier of the safety data sheet

Northern Technologies International Corporation
4201 Woodland Road
P.O. Box 69
Circle Pines, MN 55014 - United States
T +1 763-225-6600 - F +1 763-225-6645
msds@ntic.com - www.zerust.com

1.4. Emergency telephone number

Emergency number : Carechem +1 202 464 2554; Outside US/Canada +44 1865 407333 (24 hours; 7 days/week)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Serious eye damage/eye irritation, Category 2 H319

Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H319 - Causes serious eye irritation

Precautionary statements (GHS-US) :

P264 - Wash hands thoroughly after handling
P280 - Wear eye protection, protective gloves
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

Other hazards not contributing to the classification : None known.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	GHS-US classification
Distillates, petroleum, solvent-dewaxed heavy paraffinic	(CAS-No.) 64742-65-0	40 - 70	Not classified
Benzenesulfonic acid, dodecyl-, calcium salt	(CAS-No.) 26264-06-2	1 - 5	Acute Tox. 4 (Oral), H302 Aquatic Acute 3, H402
Boric acid (HBO2), calcium salt	(CAS-No.) 13701-64-9	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Benzenesulfonic acid, C10-16-alkyl derivatives	(CAS-No.) 68584-22-5	1 - 5	Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after eye contact : Causes serious eye irritation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.
- Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Refer to protective measures listed in Sections 7 and 8.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Keep container closed when not in use. Keep container tightly closed.
Incompatible products : None known.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)

USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ Refined mineral oil, mist
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8.2. Exposure controls

Appropriate engineering controls : If the occupational exposure limit is exceeded: Ensure adequate ventilation.
Personal protective equipment : Gloves. Safety glasses. Avoid all unnecessary exposure.



Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or safety glasses.
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. During spraying wear suitable respiratory equipment.
Other information : Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Grease.
Colour : light brown.
Odour : petroleum-like odour.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : 200 °C
Auto-ignition temperature : > 315 °C
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : < 0.1 mm Hg
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 1 g/cm³
Solubility : insoluble in water.
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2)	
LD50 oral rat	1300 mg/kg
ATE US (oral)	1300 mg/kg bodyweight

Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)	
LD50 oral rat	> 15000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 2400 mg/m ³ (Exposure time: 4 h)

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
LD50 oral rat	775 mg/kg
LD50 dermal rabbit	2000 mg/kg

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified
Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
Symptoms/effects after eye contact : Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

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Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2)	
LC50 fish 1	10.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)	
LC50 fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
LC50 fish 1	3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	2.9 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Zerust® Axxanol™ Z-Maxx LV	
Persistence and degradability	Not established.
Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Zerust® Axxanol™ Z-Maxx LV	
Bioaccumulative potential	Not established.
Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2)	
Bioaccumulative potential	Not established.
Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
Log Pow	2 (at 23 °C)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Recycle or dispose of in compliance with current legislation.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Product in unopened original container prior to use does not meet criteria for hazardous waste according to 40 CFR 261 (no components listed on F, K, P or U lists; not ignitable, not corrosive, not reactive and not toxic).
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT (49 CFR 100-185): Not regulated

Other information : No supplementary information available.

Transport by sea

In accordance with IMDG: Not regulated

Air transport

In accordance with IATA: Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

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Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CERCLA RQ	1000 lb
Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Boric acid (HBO2), calcium salt (13701-64-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

Zerust® Axxanol™ Z-Maxx LV
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

Zerust® Axxanol™ Z-Maxx LV	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)	
Listed on the Canadian DSL (Domestic Substances List)	
Boric acid (HBO2), calcium salt (13701-64-9)	
Listed on the Canadian DSL (Domestic Substances List)	
Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Boric acid (HBO2), calcium salt (13701-64-9)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

15.3. US State regulations

Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2)	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
U.S. - Pennsylvania - RTK (Right to Know) List	

SECTION 16: Other information

Revision date	: 12/6/2017
Data sources	: Classification according to Regulation (EC) No. 1272/2008 [CLP]. Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]. Classification GHS-UN (SDS-16).
Other information	: None.

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Full text of H-statements:

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life

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