

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/16/2021

Reviewed on 12/16/2021

1 Identification

- **Product identifier**
- **Trade name:** S-69
- **Application of the substance / the mixture** Corrosion inhibitors
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Cortec Corporation
4119 White Bear Parkway
St. Paul, MN 55110 USA
Phone (651) 429-1100
Fax (651) 429-1122
- **Information department:** compliance@cortecvci.com
- **Emergency telephone number:**
Spill, Leak, Fire, Exposure, or Accident
24 hour CHEMTREC contact:
USA and Canada 1-800-424-9300
International +1-703-527-3887 (collect calls accepted)

B101984

2 Hazard(s) identification

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Warning

- **Hazard-determining components of labeling:**

Alkyltriazole

- **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

- **Precautionary statements**

P201 Obtain special instructions before use.

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

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see first aid statements on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:	
532-32-1	Sodium benzoate
	≥10-≤25%
	salt of aromatic acid
	≥2.5- <10%
	NITSRN INH-3002
	Tertiary alkanolamine
	≥2.5- <10%
	Proprietary amine carboxylate
	≥0-≤2.5%
10102-40-6	Sodium Molybdate dihydrate
	≤2.5%
29385-43-1	Alkyltriazole
	≥0.1-≤2.5%

- Additional information

In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR 1910.1200), the specific chemical identity and/or exact percentage composition has been withheld as a trade secret.
For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- General information Immediately remove any clothing soiled by the product.
- After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- After eye contact
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing If symptoms persist consult doctor.
- Information for doctor Show this safety data sheet to the doctor in attendance.
- Most important symptoms and effects, both acute and delayed
The symptoms and effects are as expected from the hazards shown in section 2. No specific product related symptoms are known.
- No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters Self-contained breathing apparatus

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· Protective equipment:

- Wear self-contained respiratory protective device.
- Wear fully protective suit.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures



Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- **Environmental precautions:** Do not allow undiluted product 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 item 13.
- Ensure adequate ventilation.

· 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

- Store in cool, dry place in tightly closed receptacles.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.

- **Information about protection against explosions and fires:** Keep respiratory protective device available.

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

· Storage

- **Requirements to be met by storerooms and receptacles:** No special requirements.

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

- Do not store together with acids.

- Store away from foodstuffs.

- **Further information about storage conditions:** None.

- **Storage class** 12

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

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· Control parameters

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

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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533-32-1 Sodium benzoate (10-25 %)

TLV	Long-term value: NIC-2.5 mg/m ³
	NIC-inh. fraction, Skin, A5

· **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls** Use local exhaust ventilation.
- **Personal protective equipment**
- **General protective and hygienic measures**
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
- **Breathing equipment:**



Use suitable respiratory protective device in case of insufficient ventilation.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). To determine the appropriate type of respiratory protection that should be used, a hazard assessment should be performed prior to using the product. Environmental conditions such as ventilation and other contaminants may affect the type of respiratory protection that is chosen.

· **Protection of hands:**

Protective gloves

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

- **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.

- **Protective Gloves I.E.,** Nitrile, Viton, Neoprene

- **Eye protection:** Goggles recommended during refilling.

- **Body protection:** Protective work clothing.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:

Liquid

Color:

Clear amber

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **pH-value at 20 °C (68 °F):**

9.1-9.6

· **Change in condition**

Melting point/Melting range:

undetermined

Boiling point/Boiling range:

100 °C (212 °F) (*)

· **Flash point:**

Not applicable

· **Flammability (solid, gaseous)**

Not applicable.

· **Ignition temperature:**

305 °C (581 °F) (*)

· **Decomposition temperature:**

Not determined.

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· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg) (*)
· Density at 20 °C (68 °F):	1.1-1.2 g/cm ³ (9.2-10 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity: dynamic: kinematic:	Not determined. Not determined.
· Other information	The above data are typical values and do not constitute a specification. *Properties have been calculated.

10 Stability and reactivity

- Reactivity Reacts with acids.
- Chemical stability Stable under recommended storage conditions
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- Incompatible materials: Acids
- Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- Information on toxicological effects
 - Acute toxicity:
 - LD/LC50 values that are relevant for classification:
- | | |
|--|-------------------------------------|
| salt of aromatic acid
NJTSRN INH-3002 | |
| Oral | LD50 825 mg/kg (rat) |
| Tertiary alkanolamine | |
| Oral | LD50 4,190 mg/kg (rat) |
| 10102-40-6 Sodium Molybdate dihydrate | |
| Oral | LD50 2,733-6,556 mg/kg (rat) |
| Dermal | LD50 >2,000 mg/kg (rat) |
| Inhalative | LC50/4 h >1.93 mg/l (rat) (4 hours) |

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29385-43-1 Alkyltriazole

Oral	LD50	675 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.

- Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

Carcinogenic categories

- IARC (International Agency for Research on Cancer)

Tertiary alkanolamine

3

- NTP (National Toxicology Program)

None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information**Toxicity****Aquatic toxicity:****Tertiary alkanolamine**

LC50/ 96 h	11,800 mg/l (Oncorhynchus mykiss (rainbow trout)) (4 days)
LC50 (static)	>1,000 mg/l (Pimephales promelas (Fathead minnow)) (96 hours)
EC50	609.88 mg/l (Ceriodaphnia dubia) (48 Hours)
	512 mg/l (Selenastrum capricornutum) (3 days)
EC50/21 D	>16 mg/l (Daphnia magna) (21 days)
NOEC	16 mg/l (Daphnia magna) (21 days)

29385-43-1 Alkyltriazole

LC50	73.7 mg/l (Daphnia) (48 Hours)
	21.4 mg/l (Fish) (96 hours)

- Persistence and degradability No further relevant information available.

- Behavior in environmental systems:

- Bioaccumulative potential No further relevant information available.

- Mobility in soil No further relevant information available.

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

- Other adverse effects No further relevant information available.

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13 Disposal considerations

- Waste treatment methods
- Recommendation Dispose of in accordance with local, state, and federal regulations.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	not classified as dangerous goods
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	not classified as dangerous goods
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	not classified as dangerous goods
· Class	
· Packing group	
· DOT, ADR, IMDG, IATA	not classified as dangerous goods
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	not classified as dangerous goods

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.

· Sara

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females

None of the ingredients is listed.

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· Chemicals known to cause reproductive toxicity for males
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity
None of the ingredients is listed.
· Carcerogenicity categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
· Canadian Domestic Substances List (DSL): (Substances not listed)
All ingredients are listed.
· Canadian Non-Domestic Substances List (NDSL): (Substances not listed)
None of the ingredients is listed.
· Philippines Inventory of Chemicals and Chemical Substances: (Substances not listed)
Proprietary amine carboxylate
· Chinese Chemical Inventory of Existing Chemical Substances: (Substances not listed)
All ingredients are listed.
· Australian Inventory of Chemical Substances: (Substances not listed)
Proprietary amine carboxylate
· New Zealand Inventory of Chemicals: (Substances not listed)
All ingredients are listed.
· Existing Chemical Substances
Sodium benzoate
3-1272, 3-1293
salt of aromatic acid
NTSRN INH-3002
Tertiary alkanolamine
2-308, 2-353
Sodium Molybdate dihydrate
Alkyltriazole

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labeling:**

Alkyltriazole

· **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

· **Precautionary statements**

P201 Obtain special instructions before use.

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

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- P264 Wash thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 If on skin: Wash with plenty of water.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P321 Specific treatment (see first aid statements on this label).
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.
 Cortec Corporation does not warranty any translation of this SDS not created by Cortec Corporation.

Date of preparation / last revision 12/16/2021 / -

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation
 ADR: Accord relatif au transport international des marchandises dangereuses par route (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, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 Repr. 2: Reproductive toxicity – Category 2

* Data compared to the previous version altered.

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