



Safety Data Sheet

Page 1 of 7

BONDERITE S-AD 130 ACID INHIBITOR ADDITIVE
ACHESON known as RODINE 130 25KG

MSDS-No. : 319616
V001.4
Date of issue: 11.12.2015

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: BONDERITE S-AD 130 ACID INHIBITOR ADDITIVE ACHESON known as RODINE
130 25KG

Intended use: Etch Inhibitors

Supplier:
Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

| <u>Hazard Class</u> | <u>Hazard Category</u> |
|-----------------------------------|------------------------|
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitizer | Category 1 |
| Carcinogenicity | Category 2 |

Hazard pictogram:



Signal word: Danger

| | |
|------------------------------------|--|
| Hazard statement(s): | H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H351 Suspected of causing cancer. |
| Precautionary Statement(s): | |
| Prevention: | P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P272 Contaminated work clothing should not be allowed out of the workplace. |
| Response: | P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. |
| Storage: | P405 Store locked up. |
| Disposal: | P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations. |

Classification of material Xn - Harmful

Risk phrases:

R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.

Safety phrases:

S22 Do not breathe dust.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Signal word:

HAZARDOUS

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

| Chemical ingredients | CAS-No. | Proportion |
|---|------------|------------|
| 1,3-Diethyl-2-thiourea | 105-55-5 | 10- 30 % |
| Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts | 68081-81-2 | < 3 % |
| non hazardous ingredients~ | | 60- 100 % |

Section 4. First aid measures

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|---|--|
| Ingestion: | Do not induce vomiting. Get medical attention. |
| Skin: | Remove contaminated clothes. For skin contact flush with large amounts of water. If symptoms develop and persist, get medical attention. |
| Eyes: | In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention. |
| Inhalation: | Move to fresh air. Get medical attention. |
| First Aid facilities: | Eye wash and safety shower Normal washroom facilities |
| Medical attention and special treatment: | Treat symptomatically and supportively. |

Section 5. Fire fighting measures

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| Suitable extinguishing media: | Use media appropriate for surrounding material. |
| Combustion behaviour: | Non-combustible. |
| Decomposition products in case of fire:: | Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. |
| Special protective equipment for fire-fighters: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Wear full protective clothing. |

Section 6. Accidental release measures

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|-----------------------------------|---|
| Personal precautions: | Ensure adequate ventilation. Avoid skin and eye contact. Wear appropriate personal protective equipment. See advice in section 8 |
| Environmental precautions: | Do not empty into drains / surface water / ground water. |
| Clean-up methods: | Sweep up spilled material and place in a closed container for disposal. Avoid creating dust. Wash away residue with plenty of water. |

Section 7. Handling and storage

| | |
|---------------------------------------|--|
| Precautions for safe handling: | Use only in well-ventilated areas. Avoid contact with eyes, skin and clothing. Wear suitable protective clothing, gloves and eye/face protection. See advice in section 8 |
| Conditions for safe storage: | Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. |

Section 8. Exposure controls / personal protection

National exposure standards:

None

Engineering controls:

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Eye protection:

Wear dust goggles.

Skin protection:

Use of protective coveralls and long sleeves is recommended.
Use impervious gloves.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection:

If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

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|-----------------------------|---------------------|
| Appearance: | White to tan powder |
| Odor: | characteristic |
| pH: | 7.00 - 8.00 |
| Solubility in water: | Soluble |

Section 10. Stability and reactivity

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| Stability: | Stable under normal conditions of temperature and pressure. |
| Conditions to avoid: | Stable under normal conditions of storage and use. |
| Incompatible materials: | Reaction with strong acids. Incompatible with oxidising agents. |
| Hazardous decomposition products: | Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. |
| Hazardous polymerization: | Will not occur. |

Section 11. Toxicological information

Health Effects:**Ingestion:** Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.**Skin:** May cause skin sensitization.
Symptoms may include redness, edema, drying, defatting and cracking of the skin.**Eyes:** Causes serious eye damage.
Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.**Inhalation:** Dusts of this product may cause irritation of the nose, throat, and respiratory tract.**Chronic effects:** Studies on rodents have suggested that an ingredient in this product, when fed at high levels in the diet, may have cancer-causing potential.**Carcinogenicity:** Category 2 (Carcinogen), Suspected of causing cancer.**Toxicity data:**

No data available.

Section 12. Ecological information**General ecological information:** Do not empty into drains / surface water / ground water.**Toxicity:**

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|--|---------------|-----------|----------------------------|------------------|---|--|
| 1,3-Diethyl-2-thiourea 105-55-5 | EC50 | 56 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 68081-81-2 | LC50 | 5.9 mg/l | Fish | 96 h | Brachydanio rerio (new name: Danio rerio) | |
| Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 68081-81-2 | EC50 | 4.4 mg/l | Daphnia | 48 h | Daphnia magna | |
| Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 68081-81-2 | NOEC | 2.2 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | EU Method C.3 (Algal Inhibition test) |
| Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 68081-81-2 | EC50 | 43.2 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | EU Method C.3 (Algal Inhibition test) |

Persistence and degradability:

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|--|---|-------------------------|---------------|---|
| 1,3-Diethyl-2-thiourea 105-55-5 | | aerobic | 3 % | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 68081-81-2 | readily biodegradable, but failing 10-day window | aerobic | 70 - 80 % | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

Bioaccumulative potential / Mobility in soil:

| Hazardous components CAS-No. | LogKow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|---------------------------------|--------|----------------------------------|------------------|---------|-------------|--------|
|---------------------------------|--------|----------------------------------|------------------|---------|-------------|--------|

| | | | | | | |
|------------------------------------|------|--|--|--|--|--|
| 1,3-Diethyl-2-thiourea 105-55-5 | 0.57 | | | | | OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method) |
|------------------------------------|------|--|--|--|--|--|

Section 13. Disposal considerations

- Waste disposal of product:** Dispose of according to Federal, State and local governmental regulations.
- Disposal for uncleaned package:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

General information:

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

Section 15. Regulatory information

- SUSMP Poisons Schedule** 6
- AICS:** All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

Section 16. Other information

- Abbreviations/acronyms:** ADGC - Australian Dangerous Goods Code
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
- Reason for issue:** Reviewed SDS. Reissued with new date. involved chapters: 1 - 16
- Date of previous issue:** 14.05.2014
- Disclaimer:**

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