

Aluminum Cleaner and Brightener

Safety Data Sheet

SECTION 1: Product and company identification

Product name : Aluminum Cleaner and Brightener
Use of the substance/mixture : Cleaner
Product code : 80-1744
Company : KIMBALL MIDWEST
PO BOX 2470
COLUMBUS, OH 43216 - US
T 800-233-1294
Emergency number : Chemtrec: 800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Met. Corr. 1 H290
Eye Irrit. 2A H319
Repr. 1B H360

2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US) :



GHS05 GHS08

Signal word (GHS US) :

Hazard statements (GHS US) :

Precautionary statements (GHS US) :

Danger
May be corrosive to metals.
Causes serious eye irritation.
May damage fertility or the unborn child.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep only in original container.
Wash thoroughly after handling
Wear eye protection, protective clothing, protective gloves.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Absorb spillage to prevent material damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
Dispose of contents/container to comply with local/regional/national/international regulations..

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|--|---|----------|--|
| Organic acid salt mixture (Cleansing Agent) | (CAS-No.) HMIRA Reg Number 9207 Granted Date: 2014-08-20 | 10-20 | Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Repr. 1B, H360 |
| Monocarbamide Dihydrogen Sulphate (Cleansing Agent) | (CAS-No.) 21351-39-3 | 5.0-10.0 | Eye Irrit. 2A, H319 |
| Undeceth-5 (Surfactant) | (CAS-No.) 34398-01-1 | 1.0-5.0 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 |

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All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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). IF exposed or concerned: Get medical advice/attention.
- First-aid measures after inhalation : Remove the victim into fresh air. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Rinse skin with water/shower.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth with water. 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 : May damage fertility. May damage the unborn child.
- Symptoms/effects after inhalation : None under normal use.
- Symptoms/effects after skin contact : Contact during a long period may cause light irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : Gastrointestinal complaints.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : All extinguishing media allowed.

5.2. Special hazards arising from the substance or mixture

- Reactivity : Hydrogen gas may be released upon contact with certain metals at sustained temperatures about 140°F.

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
- 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

- General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

- Protective equipment : Protective goggles. Gloves. Protective clothing.
- Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Contain released product, collect/pump into suitable containers.
- Methods for cleaning up : Absorb spillage to prevent material damage. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care.
- Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

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7.2. Conditions for safe storage, including any incompatibilities

| | |
|----------------------------|---|
| Technical measures | : Comply with applicable regulations. |
| Storage conditions | : Store in corrosive resistant container with a resistant inner liner. Keep container closed when not in use. |
| Incompatible products | : Strong bases. Oxidizing agent. reducing agents. |
| Incompatible materials | : Metals. |
| Heat and ignition sources | : heat sources. |
| Storage area | : Meet the legal requirements. Store in a cool area. Store in a well-ventilated place. |
| Special rules on packaging | : meet the legal requirements. Keep only in original container. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Undeceth-5 (34398-01-1)

Not applicable

Organic acid salt mixture (HMIRA Reg Number 9207 Granted Date: 2014-08-20)

Not applicable

Monocarbamide Dihydrogen Sulphate (21351-39-3)

Not applicable

8.2. Exposure controls

Personal protective equipment : Use appropriate personal protective equipment when risk assessment indicates this is necessary. Safety glasses. Gloves. Protective clothing.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------------|
| Physical state | : Liquid |
| Appearance | : Clear, colorless liquid |
| Odour | : Mild odor |
| Odour threshold | : No data available |
| pH | : < 1 |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : > 200 °F Estimated |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Explosive limits | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Vapour pressure | : No data available |
| Relative density | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Density | : 1.08 g/ml |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Partition coefficient n-octanol/water (Log Kow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| VOC content | : < 3 % |

SECTION 10: Stability and reactivity

10.1. Reactivity

Hydrogen gas may be released upon contact with certain metals at sustained temperatures about 140°F.

10.2. Chemical stability

Metal contact may cause Hydrogen release.

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10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Open flame. Overheating.

10.5. Incompatible materials

May be corrosive to metals. Do not mix with metal powders. Avoid contact with oxidizers or reducing agents, alkalis, chlorates, nitrates. Contact with hypochlorites will liberate toxic gases.

10.6. Hazardous decomposition products

Thermal decomposition may yield hydrofluoric acid and oxides of carbon, nitrogen, chlorine and sulfur. Hydrogen gas may be released upon contact with certain metals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Undeceth-5 (34398-01-1)

| | |
|---------------|--------------|
| LD50 oral rat | > 1400 mg/kg |
|---------------|--------------|

Organic acid salt mixture (HMIRA Reg Number 9207 Granted Date: 2014-08-20)

| | |
|---------------|-------------|
| LD50 oral rat | 678.3 mg/kg |
|---------------|-------------|

| | |
|-----------------|--------------|
| LD50 dermal rat | 2109.4 mg/kg |
|-----------------|--------------|

Skin corrosion/irritation : Not classified

pH: < 1

Serious eye damage/irritation : Causes serious eye irritation.

pH: < 1

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : May damage fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after inhalation : None under normal use.

Symptoms/effects after skin contact : Contact during a long period may cause light irritation.

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

Symptoms/effects after ingestion : Gastrointestinal complaints.

Likely routes of exposure : Skin and eyes contact

SECTION 12: Ecological information

12.1. Toxicity

Undeceth-5 (34398-01-1)

| | |
|-----------------|-----------|
| LC50 - Fish [1] | < 10 mg/l |
|-----------------|-----------|

| | |
|----------------------|-----------|
| EC50 - Crustacea [1] | < 10 mg/l |
|----------------------|-----------|

| | |
|-------------|-----------|
| ErC50 algae | < 10 mg/l |
|-------------|-----------|

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT : Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

UN-No. (IMDG) : Prohibited
Proper Shipping Name (IMDG) : Prohibited
EmS-No. (1) : Prohibited
MFAG-No : Prohibited
EmS-No. (2) : Prohibited

Air transport

Proper Shipping Name (IATA) : Prohibited

SECTION 15: Regulatory information

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

| | | |
|------------|--------------|---|
| Undeceth-5 | (34398-01-1) | SARA Section 311/312 Hazard Classes Immediate (acute) health hazard |
|------------|--------------|---|

WARNING

This product can expose you to Ethylene Oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

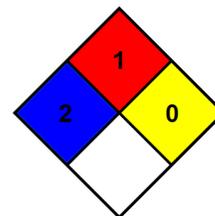
SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.