

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard

SDS Number: 3885-18



SECTION I IDENTIFICATION

Product Identifier

| | |
|--------------------------|---|
| Product Name | COOLER CLEANER |
| Product Code | 3885/5218/5225/5231 |
| Recommended Use | Evaporator Cooler/Mist Nozzle Descalant |
| Distributor Name | Dial Manufacturing Inc. |
| Distributor Address | 25 South 51 st Avenue, Phoenix, AZ 85403 |
| Distributor Phone Number | (602) 278-1100 |

SECTION II HAZARD IDENTIFICATION

Classification of Substance or Mixture

Classification according to Regulation (EC) No 1272/2008



**GHS05
CORROSIVE**

H290 - May be corrosive to metals
H314 - Causes severe skin burns and eye damage
H302 - Harmful if swallowed



**GHS07
TOXIC**

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Not Applicable




Information concerning particular hazards for human and environment

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

Label elements - Labeling according to Regulation (EC) No 1272/2008

| | | |
|---|--|---|
| Hazard Pictogram |  |  |
| | GHS05 CORROSIVE | GHS07 TOXIC |
| Single Word | DANGER | |
| Hazard-determining components of labeling | Urea Hydrochloride | |
| Hazard statements | H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. | |
| Precautionary statements | | |
| P101 | If medical advice is needed, have product container or label at hand. | |
| P102 | Keep out of reach of children. | |
| P103 | Read label before use. | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | |
| P264 | Wash thoroughly after handling. | |
| P260 | Do not breathe mist/vapors/spray. | |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. | |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do continue rinsing. | |
| P310 | Immediately call a POISON CENTER or doctor/physician. | |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. | |
| P301+P330+P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. | |
| WHMIS-symbols | D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects E - Corrosive material | |
| |  | |

NFPA Rating
(Scale 0 - 4)



HMIS Rating
(Scale 0 - 4)

| | |
|--------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 0 |
| REACTIVITY | 0 |

Other Hazards

Results of PBT and vPvB
assessment

PBT: Not applicable
vPvB: Not applicable

SECTION III COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture

Description: Mixture of substances listed below with nonhazardous additions.

| CAS Number | Dangerous Components | % |
|------------|------------------------|---------|
| 506-89-8 | Urea Monohydrochloride | 0 - 15% |

SECTION IV FIRST-AID MEASURES

Description of First Aid Measure

| | |
|----------------------------|---|
| General information | a) Immediately remove any clothing soiled by the product. b) Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. |
| After inhalation | a) Supply fresh air; consult doctor in case of complaints. b) In case of irregular breathing or respiratory arrest provide artificial respiration |
| After skin contact | a) Immediately rinse with water. b) If skin irritation continues, consult a doctor. |
| After eye contact | a) Remove contact lenses if worn, if possible. b) Rinse opened eye for several minutes under running water. Then consult a doctor. |
| After swallowing | a) Rinse out mouth and then drink plenty of water. b) Do not induce vomiting; call for medical help immediately. |

Most important symptoms and effects, both acute and delayed

| | |
|-----------------|--|
| Symptoms | Coughing Breathing difficulty Dizziness Gastric or intestinal disorders |
|-----------------|--|

| | |
|----------------|--|
| Hazards | Danger of gastric perforation. Danger of pulmonary oedema. Danger of impaired breathing. |
|----------------|--|

Indication of any immediate medical attention and special treatment needed

If necessary oxygen respiration treatment.
Medical supervision for at least 48 hours.

SECTION V FIRE-FIGHTING MEASURES

Extinguishing media

| | |
|--------------------------------------|---|
| Suitable extinguishing agents | CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
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| | |
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| Unsuitable extinguishing agents | None |
|--|------|

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

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|-------------------------------|--|
| Additional information | Cool endangered receptacles with water spray |
|-------------------------------|--|

SECTION VI ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment.
Keep unprotected persons away.
Ensure adequate ventilation.

Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.
Do not allow 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.
Clean the affected area carefully; suitable cleaners are:
Warm water

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 VII HANDLING AND STORAGE

Precautions for safe handling

- a) Ensure good ventilation/exhaustion at the workplace.
- b) Prevent formation of aerosols.
- c) Do not ingest.
- d) Avoid contact with eyes, skin and clothing.
- e) Avoid breathing vapor or mist.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

- a) Store in a cool location
- b) Avoid storage near extreme heat, ignition sources or open flame.
- c) Don't reuse empty container.
- d) Unsuitable material for receptacle: aluminum.

Information about storage in one common storage facility:

- a) Store away from food.
- b) Store away from oxidizing agents.
- c) Do not store together with alkalis (caustic solutions).

Further information about storage conditions:

- a) Store in cool, dry conditions in well sealed receptacles.
- b) Store receptacle in a well ventilated area.
- c) Keep container tightly sealed.

Specific end use(s) **None**

SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

Occupational Exposure Limits

OSHA (PEL): Not Established
AGCIH (TWA): Not established

Control Parameters

Good general ventilation should be sufficient to control worker exposure to airborne contaminants & fumes.

Ingredients with limit values that require monitoring at the workplace

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure Control

| | |
|---|---|
| General protective and hygienic measures | <ul style="list-style-type: none"> • Keep away from food, beverages and feed. • Immediately remove all soiled and contaminated clothing. • Wash hands before breaks and at the end of work. • Avoid contact with the eyes and skin. |
| Respiratory protection | <ul style="list-style-type: none"> • Suitable respiratory protective device recommended. • For spills, respiratory protection may be advisable |
| Hand Protection | <ul style="list-style-type: none"> • Neoprene, butyl or nitrile rubber glove with cuffs |
| Eye Protection | <ul style="list-style-type: none"> • Chemical splash goggles |
| Body Protection | <ul style="list-style-type: none"> • Coverall and apron |

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance

| | |
|-------|-------|
| Form | Fluid |
| Color | Blue |

| | |
|---|--|
| Odor | Acidic |
| Odor Threshold | Not Determined |
| Change in condition | |
| Melting point/Melting range | Undetermined |
| Boiling point/Boiling range | 100 °C (212 °F) |
| Flash point | Not applicable |
| Flammability (solid, gaseous) | Non-Flammable |
| Ignition temperature | Not determined |
| Decomposition temperature | Not determined |
| Auto igniting | Product is not self-lighting |
| Danger of explosion | Product does not present an explosion hazard |
| Explosion limits | |
| Lower | Not determined |
| Upper | Not determined |
| Vapor pressure | Not determined |
| Density | Not determined |
| Relative density | 8.59 lbs/gal |
| Vapor density | Not determined |
| Evaporation rate | (BuAc=1) <.01 |
| Solubility in/Miscibility with | |
| Water | Fully miscible |
| Partition coefficient (n-octanol/water) | Not determined |
| Viscosity | |
| Dynamic | Not determined |
| Kinematic | Not determined |
| Other information | No further relevant information |

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SECTION X

STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients

Chemical stability Stable

Conditions to avoid No specific data

Possibility of hazardous reaction No dangerous reactions known

Incompatible materials Reactive or incompatible with the following materials: oxidizing materials. This material may be extremely hazardous in contact with chlorates and nitrates. Contact with hypochlorites (e.g. Chlorine bleach, sulfides or cyanides) will liberate toxic gases. Contact with alkaline materials (e.g. Aqua ammonia) will generate heat.

SECTION XI TOXICOLOGICAL INFORMATION

Acute Toxicity

| Hazardous Ingredient | CAS # | LD 50 of Ingredient |
|------------------------|----------|-----------------------|
| Urea Monohydrochloride | 506-89-8 | 1121 mg/kg - Oral rat |

Primary irritant effects

| | |
|------|--------------------|
| Skin | Mild Skin irritant |
| Eye | Corrosive |

Carcinogenic categories

| | |
|--|-------------|
| IARC (International Agency for Research on Cancer) | None listed |
| NTP (National Toxicology Program) | None listed |
| OSHA(Occupational Safety & Health Administration) | None listed |

SECTION XII ECOLOGICAL INFORMATION

Toxicity

| Ingredient Name | Result | Species | Exposure |
|-------------------------------|---|--------------------|----------|
| Organic acid salt | Acute LC50 71 mg/l | Ceriodaphnia dubia | 48 hours |
| Organic acid salt | Acute LC0 > 142 mg/l | Rainbow Trout | 96 hours |
| Aquatic toxicity | No further relevant information available | | |
| Persistence and degradability | No further relevant information available | | |

Behavior on the environmental system

| | |
|---------------------------|---|
| Bioaccumulative potential | No further relevant information available |
| Mobility in soil | No further relevant information available |

Additional Ecological information

| | |
|---------------|---------------|
| General Notes | Biodegradable |
|---------------|---------------|

Results of PBT and vPvB assessment

| | |
|------|----------------|
| PBT | Not applicable |
| vPvB | Not applicable |

SECTION XIII DISPOSAL CONSIDERATIONS**Waste treatment methods (Recommendation)**

Biodegradable.

This product has been evaluated for RCRA characteristics and does not meet the criteria for a hazardous waste, if discarded in its purchased form.

Uncleaned packaging (Recommendations)

Neutralize waste fluids with soda ash.

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

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SECTION XIV TRANSPORT INFORMATION**UN-Number**

| | |
|----------------------|--------|
| DOT, ADR, IMDG, IATA | UN2922 |
|----------------------|--------|

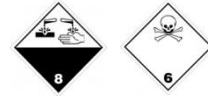
UN proper shipping name

| | |
|-----------------|---|
| DOT, IMDG, IATA | CORROSIVE LIQUID, TOXIC, N.O.S. (Urea Hydrochloride) |
| ADR | 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (Urea Hydrochloride) |

Transport hazard class(es)

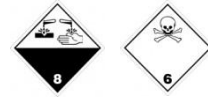
DOT

Class 8 corrosive substances
Label 8+6.1



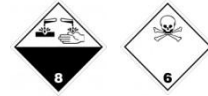
ADR

Class 8 (CT1) Corrosive substances
Label 8+6.1



IMDG, IATA

Class 8 corrosive substances
Label 8+6.1



Packing group

DOT, ADR, MGD, IATA II

Environmental hazards

Marine pollutant No

Special precautions for user

Danger code (Kemler) Warning: Corrosive substances
86
EMS Number F-A,S-B

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

Transport/Additional information

ADR 1L

Limited quantities (LQ) 2

Transport category E

Tunnel restriction code UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (Urea
UN "Model Regulation" Hydrochloride), 8 (6.1), II

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SECTION XV**REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)

SARA

Section 355 (extremely hazardous substances)
Section 313 (Specific toxic chemical listings)
TSCA (Toxic Substances Control Act)

None of the ingredients is listed.
None of the ingredients is listed.
506-89-8 Urea Hydrochloride

Proposition 65 (California)

| | |
|---|------------------------------------|
| 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. |
| 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. |

Carcinogenic Categories

| | |
|---|------------------------------------|
| EPA (Environmental Protection Agency) | None of the ingredients is listed. |
| IARC (International Agency for Research on Cancer) | None of the ingredients is listed. |
| TLV (Threshold Limit Value established by ACGIH) | None of the ingredients is listed. |
| NIOSH (National Institute for Occupational Safety and Health) | None of the ingredients is listed. |
| OSHA (Occupational Safety & Health Administration) | None of the ingredients is listed. |

Canada

| | |
|--|------------------------------------|
| Canadian Domestic Substances List (DSL) | 506-89-8 Urea Hydrochloride |
| Canadian Ingredient Disclosure list (limit 0.1%) | None of the ingredients is listed. |
| Canadian Ingredient Disclosure list (limit 1%) | None of the ingredients is listed. |

SECTION XVI**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.

The information and recommendations contained herein are based upon information believed to be reliable. However, manufacturer, supplier(s) and preparer does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. Manufacturer, supplier(s) and preparer assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

END OF SDS