

WWT AL SU 48

SAFETY DATA SHEET

Preparation Date: 11-Jan-2008

Revision Date: 05-Jun-2015

Revision Number: 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name WWT AL SU 48

Other means of identification

Item#: 1776
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Waste Water - Coagulant, Restricted to professional users
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier DeLaval Cleaning Solutions
 11100 N. Congress Ave.
 Kansas City, MO 64153

 Tel: 816-891-7700, 8am – 5pm M-F

Emergency Telephone Number

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|-----------------------------------|------------|
| Acute Toxicity - Oral | Category 4 |
| Skin Corrosion/Irritation | Category 2 |
| Serious eye damage/eye irritation | Category 1 |

Label Elements

Emergency Overview

DANGER

Hazard Statements

Harmful if swallowed
 Causes skin irritation
 Causes serious eye damage
 May cause respiratory irritation
 Toxic to aquatic life



Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, Foam, Dry powder, Carbon dioxide (CO2)

Unsuitable Extinguishing Media

No information available.

Specific hazards arising from the chemical

No information available.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin and the eyes.

Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials

No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Keep out of the reach of children

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--------------------------------|---|----------|------------|
| Aluminum sulfate 10043-01-3 | TWA 2 mg/m ³ (listed as Aluminum, soluble salts) | | |

Appropriate engineering controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection

Goggles.

Skin and body protection

Wear protective gloves and protective clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|--|--------------------------|------------------------|--------------------------|
| Physical state | Liquid | Odor | No information available |
| Appearance | Light yellow | Odor Threshold | No information available |
| Property | Values | Remarks/ Method | |
| pH | No information available | | |
| Melting point/freezing point | No information available | | |
| Boiling Point/Range | No information available | | |
| Flash Point | No information available | | |
| Evaporation rate | No information available | | |
| Flammability (solid, gas) | No information available | | |
| Flammability Limit in Air | | | |
| Upper flammability limit | No information available | | |
| Lower flammability limit | No information available | | |
| Vapor Pressure | No information available | | |
| Vapor Density | No information available | | |
| Specific Gravity | 1.34 | | |
| Water Solubility | soluble | | |
| Partition coefficient: n-octanol/water | No information available | | |
| Autoignition Temperature | No information available | | |
| Decomposition temperature | No information available | | |
| Viscosity of Product | No information available | | |

Other information

Density 11.1 lb/gal

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

None known.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

No information available

Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Eye contact
Skin contact
Ingestion

Information on toxicological effects

Eyes Causes severe eye irritation
Skin May cause skin irritation
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Mutagenic effects No information available.
Carcinogenicity No information available.

Reproductive Effects No information available.
STOT - single exposure No information available.
STOT-repeated exposure No information available.
Aspiration Hazard No information available.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------------|----------------------|-------------|-----------------|
| Aluminum sulfate 10043-01-3 | = 1930 mg/kg (Rat) | - | - |

Numerical measures of toxicity - Product Information

70% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

70% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Microtox | Waterflea |
|--------------------------------|----------------------|---|----------|--|
| Aluminum sulfate 10043-01-3 | - | 100: 96 h Carassius auratus mg/L LC50 37: 96 h Gambusia affinis mg/L LC50 static | - | 136: 15 min Daphnia magna mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT

UN-No 3264
Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s (aluminum sulfate solution)
Hazard Class 8
Packing Group III

15. REGULATORY INFORMATION**International Inventories**

TSCA TSCA
DSL/NDSL DSL/NDSL
EINECS/ELINCS Complies
ENCS Complies
CHINA Complies
KECL Complies
PICCS Complies
AICS Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------------------|-----------------------------|------------------------|---------------------------|--|
| Aluminum sulfate 10043-01-3 | 5000 lb | - | - | X |
| Chemical Name | RQ | CERCLA EHS RQs | | RQ |
| Aluminum sulfate 10043-01-3 | 5000 | - | | RQ 5000 lb final RQ RQ 2270 kg final RQ |

State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. OTHER INFORMATION

NFPA Health 3 Flammability 0 Instability 0 Physical Hazard -

Preparation Date: 11-Jan-2008

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Revision Note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS