

SECTION 1: Identification of Product and Company

1.1. Product identifier

Product name : A-400
 Product code : 284103
 Recommended use : Scale and Corrosion Inhibitor

1.2. Company identification

Supplier

Dober Chemical Corp
 11230 Katherine's Crossing
 60517 Woodridge, IL - US
 T 630-410-7300 - F 630-410-7444
regulatory@dober.com - www.dober.com

Emergency number : 1-800-255-3924 / 1-813-248-0585
 ChemTel

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin corrosion/irritation, Category 1B
 Serious eye damage/eye irritation, Category 1

2.2. Label elements

GHS-BR labelling

Hazard pictograms (GHS-BR) :



GHS05

Signal word (GHS-BR) : Danger
 Hazard statements (GHS-BR) : H314 - Causes severe skin burns and eye damage.
 Precautionary statements (GHS-BR) : P260 - Do not breathe mist, spray, vapours.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P280 - Wear protective gloves, protective clothing, eye protection, face protection.
 P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
 Rinse skin with water/shower.
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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, a doctor.
 P363 - Wash contaminated clothing before reuse.
 P405 - Store locked up.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name : A-400
 Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS-BR (ABNT NBR 14725)
Sodium Tolyltriazole	(CAS-No.) 64665-57-2	10 - 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT SE 3, H335

A-400

Safety Data Sheet

According to ABNT NBR 14725-4

Name	Product identifier	%	Classification according to GHS-BR (ABNT NBR 14725)
Sodium Nitrate	(CAS-No.) 7631-99-4	5 - 10	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Sodium Molybdate	(CAS-No.) 7631-95-0	1 - 5	Acute Tox. 5 (Oral), H303
Sodium Hydroxide	(CAS-No.) 1310-73-2	< 1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting because of corrosive effects.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
Symptoms/effects after skin contact	: Highly corrosive to skin. Causes severe burns. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Causes serious eye burns. stinging. redness, itching, tears. Causes serious eye damage.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Notes to physician	: Treat symptomatically
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: In case of fire, corrosive gases come free. In case of fire and/or explosion do not breathe fumes.
Explosion hazard	: No direct explosion hazard.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.
Other information	: In case of fire, corrosive and harmful gases come free.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid contact with skin and eyes. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

6.1.2. For emergency responders

Protective equipment	: Self-contained breathing apparatus. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Corrosionproof suit. Equip cleanup crew with proper protection.
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A-400

Safety Data Sheet

According to ABNT NBR 14725-4

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Clean contaminated surfaces with an excess of water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : When heated, material emits highly irritating vapours, affecting the eyes. Keep only in original container. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Always wash hands after handling the product. Remove contaminated clothes. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store locked up.

Storage conditions : Keep cool. Protect from sunlight.

Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium Hydroxide (1310-73-2)		
USA	ACGIH Ceiling (mg/m ³)	2 mg/m ³
USA	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Personal protective equipment

Personal protective equipment : Corrosionproof clothing.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield.

Skin and body protection : Wear impervious rubber safety shoes.

Respiratory protection : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : amber

Odour : odourless

Odour threshold : Not available

pH : 12.6 - 13.6

Melting point : Not available

Freezing point : Not available

Boiling point : Not available

Flash point : Not available

Relative evaporation rate (butylacetate=1) : Not available

Flammability (solid, gas) : Not available

Explosive limits : Not available

Vapour pressure : Not available

Relative vapour density at 20 °C : Not available

Relative density : Not available

Density : 1.245 - 1.275 g/cm³

A-400

Safety Data Sheet

According to ABNT NBR 14725-4

Solubility	: Water: 100 %
Log Pow	: Not available
Log Kow	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: Not available

9.2. Other information

Not available

SECTION 10: Stability and reactivity

Chemical stability	: Stable under normal conditions
Conditions to avoid	: Extremely high or low temperatures, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hazardous decomposition products	: On exposure to high temperature, may decompose, releasing corrosive gases
Incompatible materials	: Consult supplier(s) of these materials for specific recommendations
Possibility of hazardous reactions	: None under normal use
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not available
Acute toxicity (dermal)	: Not available
Acute toxicity (inhalation)	: Not available

Sodium Tolytriazole (64665-57-2)	
LD50 oral rat	1980 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
Sodium Nitrate (7631-99-4)	
LD50 oral rat	1267 mg/kg
Sodium Molybdate (7631-95-0)	
LD50 oral rat	4000 mg/kg
LC50 inhalation rat (mg/l)	> 2080 mg/m ³ (Exposure time: 4 h)
Sodium Hydroxide (1310-73-2)	
LD50 oral rat	140 - 340 mg/kg
LD50 dermal rabbit	1350 mg/kg

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 12.6 - 13.6
Serious eye damage/irritation	: Causes serious eye damage. pH: 12.6 - 13.6
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available
Aspiration hazard	: Not available
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
Symptoms/effects after skin contact	: Highly corrosive to skin. Causes severe burns. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Causes serious eye burns. stinging. redness, itching, tears. Causes serious eye damage.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

A-400

Safety Data Sheet

According to ABNT NBR 14725-4

SECTION 12: Ecological information

12.1. Toxicity

Unknown hazards to the aquatic environment (GHS-BR) : Contains 37.39 % of components with unknown hazards to the aquatic environment

Acute aquatic toxicity : Not available

Chronic aquatic toxicity : Not available

Sodium Nitrate (7631-99-4)

LC50 fish 1	2000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
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LC50 fish 2	994.4 - 1107 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Sodium Nitrate (7631-99-4)

Log Pow	-3.8 (at 25 °C)
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems. Before neutralisation, the product may represent a danger to aquatic organisms.

GWPmix comment : No known effects from this product.

SECTION 13: Disposal considerations

Waste treatment methods : Must follow special treatment according to local regulation.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

SECTION 14: Transport information

14.1 National and international Regulations

Overland transport

UN-No.(Res 420) : 1719

Proper Shipping Name (Res 420) : CAUSTIC ALKALI LIQUID, N.O.S.
(Sodium Tolyltriazole, Sodium Hydroxide)

Class (Res 420) : 8 - Corrosive substances

Risk Number (Resolução 420) : 80 - Corrosive or slightly corrosive substance

Packing group (Res 420) : II - Substances presenting medium danger

Special provisions (Res 420) : 274

Transport by sea

UN-No. (IMDG) : 1719

Proper Shipping Name (IMDG) : CAUSTIC ALKALI LIQUID, N.O.S.
(Sodium Tolyltriazole, Sodium Hydroxide)

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : II - substances presenting medium danger

Marine pollutant (IMDG) : No

Special provisions (IMDG) : 274

Air transport

UN-No. (IATA) : 1719

Proper Shipping Name (IATA) : Caustic alkali liquid, n.o.s.
(Sodium Tolyltriazole, Sodium Hydroxide)

Class (IATA) : 8 - Corrosives

Packing group (IATA) : II - Medium Danger

Special provisions (IATA) : A3

14.2 Other information

No additional information available

A-400

Safety Data Sheet

According to ABNT NBR 14725-4

SECTION 15: Regulatory information

Brazil Local Regulations : Standard ABNT NBR 14725.
Federal Decree no. 2.657, of 3 July 1998 – Promulgates Convention no. 170 of the WLO, relating to Safety in the Use of Chemicals in the Workplace, signed in Geneva, on 25 June 1990.
Ministerial Order no. 229, of 24 May 2011 – Modifies Regulatory Standard no. 26

Resolution n° 420/ANTT, of February 12, 2004

SECTION 16: Other information

Other information : None.
Abbreviations and acronyms : ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor
EC50 - Median effective concentration
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC50 - Median lethal concentration
LD50 - Median lethal dose

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