

**SECTION 1: Identification**
**1.1. Product identifier**

Product form : Mixtures  
 Product name : OCA-2M  
 Product code : 286099

**1.2. Recommended use and restrictions on use**

Recommended use : Corrosion inhibitor

**1.3. Supplier**

Dober Chemical Corp  
 11230 Katherine's Crossing  
 60517 Woodridge, IL - US  
 T 630-410-7300 - F 630-410-7444  
[regulatory@dober.com](mailto:regulatory@dober.com) - [www.dober.com](http://www.dober.com)

**1.4. Emergency telephone number**

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

**SECTION 2: Hazard identification**
**2.1. Classification of the substance or mixture**
**Classification (GHS-CA)**

Skin Corr. 1C H314  
 Repr. 2 H361  
 STOT SE 3 H335  
 Aquatic Acute 3 H402

Full text of hazard classes and H-statements : see section 16

**2.2. GHS Label elements, including precautionary statements**
**GHS-CA labeling**

Hazard pictograms (GHS-CA) :



GHS05

GHS07

GHS08

Signal word (GHS-CA) : Danger

Hazard statements (GHS-CA) : H314 - Causes severe skin burns and eye damage  
 H335 - May cause respiratory irritation  
 H361 - Suspected of damaging fertility or the unborn child  
 H402 - Harmful to aquatic life

Precautionary statements (GHS-CA) : 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/vapors/spray  
 P264 - Wash hands, forearms and face thoroughly after handling  
 P271 - Use only outdoors or in a well-ventilated area  
 P273 - Avoid release to the environment  
 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  
 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  
 P308+P313 - IF exposed or concerned: Get medical advice/attention  
 P310 - Immediately call a poison center or doctor/physician  
 P312 - Call a POISON CENTER/doctor if you feel unwell  
 P363 - Wash contaminated clothing before reuse  
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
 P405 - Store locked up  
 P501 - Dispose in a safe manner in accordance with local/national regulations

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### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-CA)

43.41% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

47.51% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

48.37% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
Potassium 2-Ethylhexanoate	2-Ethylhexanoic acid, potassium salt / Hexanoate, 2-ethyl-, potassium / Hexanoic acid, 2-ethyl-, potassium salt / Hexanoic acid, 2-ethyl-, potassium salt (1:1)	(CAS-No.) 3164-85-0	34.59 - 42.28	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 2, H361 STOT SE 3, H335
Sodium Tolytriazole	Benzotriazole (1H), methyl, sodium salt / 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt / Methyl-1H-benzotriazole, sodium salt / Sodium 4(or 5)-methyl-1H-benzotriazolide / Sodium 4-(or 5)-methyl-benzotriazole / Sodium tolytriazole / Tolytriazole sodium / 1H-Benzotriazole, 6(or 7)-methyl-, sodium salt (1:1)	(CAS-No.) 64665-57-2	2.47 - 3.01	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT SE 3, H335
Sodium Nitrite	Diazotizing salts / Nitrous acid, sodium salt / Nitrous acid, sodium salt (1:1) / SODIUM NITRITE	(CAS-No.) 7632-00-0	1.76 - 2.15	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2A, H319 Aquatic Acute 1, H400
Phosphate Ester		(CAS-No.) 9056-42-2	0.1 - 0.13	Skin Irrit. 2, H315 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.
- First-aid measures general : Call a physician immediately.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : Burns.
- Symptoms/effects after eye contact : Eye irritation. Serious damage to eyes.
- Symptoms/effects after ingestion : Burns.

### 4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Unsuitable extinguishing media

No additional information available

### 5.3. Specific hazards arising from the hazardous product

No additional information available

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### 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear protective gloves/protective clothing/eye protection/face protection

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### 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  
Appearance : No data available  
Color : Yellow  
Odor : odorless  
Odor threshold : No data available  
pH : 10 - 10.55  
Relative evaporation rate (butyl acetate=1) : No data available  
Relative evaporation rate (ether=1) : No data available  
Melting point : Not applicable  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Vapor pressure at 50 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.119 - 1.149
Solubility	: Water: 100 %
Log Pow	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

Unknown acute toxicity (GHS-CA)	43.41% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 47.51% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 48.37% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
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### Sodium Tolytriazole (64665-57-2)

LD50 oral rat	1980 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

### Sodium Nitrite (7632-00-0)

LD50 oral rat	85 mg/kg
LD50 oral	77 mg/kg
LC50 inhalation rat (mg/l)	5.5 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	5.5 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 10 - 10.55
Serious eye damage/irritation	: Eye damage, category 1, implicit pH: 10 - 10.55
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Harmful to aquatic life.

#### Sodium Nitrite (7632-00-0)

LC50 fish 1	0.19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
LC50 fish 2	0.092 - 0.13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

#### 12.2. Persistence and degradability

#### Potassium 2-Ethylhexanoate (3164-85-0)

Persistence and degradability : Not established.

#### 12.3. Bioaccumulative potential

#### Potassium 2-Ethylhexanoate (3164-85-0)

Bioaccumulative potential : Not established.

#### Sodium Nitrite (7632-00-0)

Log Pow : -3.7 (at 25 °C)

#### 12.4. Mobility in soil

#### Sodium Nitrite (7632-00-0)

Log Pow : -3.7 (at 25 °C)

#### 12.5. Other adverse effects

GWPmix comment : No known effects from this product.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

#### 14.1. Basic shipping description

In accordance with TDG

#### Transportation of Dangerous Goods

UN-No. (TDG) : UN1719  
Packing group : III - Minor Danger  
TDG Primary Hazard Classes : 8 - Class 8 - Corrosives  
Transport document description : UN1719 CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Tolyltriazole), 8, III  
Proper Shipping Name (Transportation of Dangerous Goods) : CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Tolyltriazole)

Hazard labels (TDG) : 8 - Corrosive substances



TDG Special Provisions : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S.; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S.; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S.; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306

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Explosive Limit and Limited Quantity Index : 5 L  
Excepted quantities (TDG) : E1  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L

### 14.2. Transport information/DOT

#### Department of Transport

DOT NA no. : UN1719  
UN-No.(DOT) : 1719  
Packing group (DOT) : III - Minor Danger  
DOT Symbols : G - Identifies PSN requiring a technical name

Transport document description : RQ, UN1719 Caustic alkali liquids, n.o.s. (Sodium Tolyltriazole, Sodium Nitrite), 8, III  
RQ of 5100 lb due to Sodium Nitrite

Proper Shipping Name (DOT) : Caustic alkali liquids, n.o.s. (Sodium Tolyltriazole, Sodium Nitrite)

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136  
Division (DOT) : 8  
Hazard labels (DOT) : 8 - Corrosive



Dangerous for the environment : No

DOT Special Provisions (49 CFR 172.102) : B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.  
IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.  
T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3)  
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.  
TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 30 L  
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  
DOT Vessel Stowage Other : 29 - Stow "away from" ammonium compounds, 52 - Stow "separated from" acids

Other information : No supplementary information available.

### 14.3. Air and sea transport

#### IMDG

UN-No. (IMDG) : 1719  
Proper Shipping Name (IMDG) : CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Tolyltriazole)

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Transport document description (IMDG)	: UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Tolyltriazole), 8, III
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
MFAG-No	: 154
Ship Safety Act	: Corrosive substances
Port Regulation Law	: Corrosive substances

### IATA

UN-No. (IATA)	: 1719
Proper Shipping Name (IATA)	: Caustic alkali liquid, n.o.s. (Sodium Tolyltriazole)
Transport document description (IATA)	: UN 1719 Caustic alkali liquid, n.o.s. (Sodium Tolyltriazole), 8, III
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger
Civil Aeronautics Law	: Corrosive substances

## SECTION 15: Regulatory information

### 15.1. National regulations

#### OCA-2M

Canada DSL & NDSL Flags	All substances contained in this product are listed on the Canadian Domestic Substance List (DSL) or are not required to be listed except for:
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#### Phosphate Ester (9056-42-2)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### 15.2. International regulations

#### Potassium 2-Ethylhexanoate (3164-85-0)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on CICR (Turkish Inventory and Control of Chemicals)

#### Sodium Tolyltriazole (64665-57-2)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Sodium Nitrite (7632-00-0)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Japanese Poisonous and Deleterious Substances Control Law  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on CICR (Turkish Inventory and Control of Chemicals)

#### Phosphate Ester (9056-42-2)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

## SECTION 16: Other information

SDS Major/Minor	: None
Date of issue	: 05/09/2017

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Revision date : 07/24/2017  
Supersedes : 07/08/2017

Full text of H-phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Ox. Sol. 3	Oxidizing solids Category 3
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H272	May intensify fire; oxidizer
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H402	Harmful to aquatic life

SDS Canada Dober

*To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*