SECTION 1: Identification of the substance or mixture and of the supplier

1.1. Product identifier

Product name : Supplemental Coolant Additive
Type of product : Scale and Corrosion Inhibitor
Product code : T80001

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Supplemental Coolant Additive

1.3. Supplier's details

Supplier
Dober Chemical Corp
543 Forest Road
Humboldt Industrial Park
18202 Hazle Township, PA - US
T 630-410-7300 - F 630-410-7444
regulatory@dober.com - www.dober.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to MOI notification B.E. 2555 (2012)

Corrosive to metals Not classified	
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Reproductive toxicity, Category 1A	H360
Hazardous to the aquatic environment — Acute Hazard, Category 2	H401

2.2. Label elements

Labelling according to MOI notification B.E. 2555 (2012)

Hazard pictograms (GHS TH) :

GHS07

GHS08

Signal word (GHS TH) : Danger

Hazard statements (GHS TH) :
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H360 - May damage fertility or the unborn child.
H401 - Toxic to aquatic life

Precautionary statements (GHS TH) :
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352 - IF ON SKIN: Wash with plenty of water
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 and attention.
P330 - If swallowed, rinse mouth
P332+P313 - If on skin and if skin irritation occurs, seek medical advice and attention.
P337+P313 - If eye irritation persists: Get medical advice and attention.
P362 - If on skin, take off contaminated clothing
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

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to MOI notification B.E. 2555 (2012)
Sodium Nitrite	(CAS-No.) 7632-00-0	≥4 - <5	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Acute Tox. Not classified (Inhalation:dust,mist) Eye Irrit. 2A, H319 Aquatic Acute 1, H400
Disodium Tetraborate, Anhydrous	(CAS-No.) 1330-43-4	≥2.6 - <3	Flam. Sol. Not classified Pyr. Sol. Not classified Self-heat. Not classified Ox. Sol. Not classified Acute Tox. 5 (Oral), H303 Eye Irrit. 2A, H319 Repr. 1A, H360 Aquatic Acute Not classified
Disodium Trioxosilicate	(CAS-No.) 6834-92-0	≥1.7 - <2.9	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 STOT SE 3, H335 Aquatic Acute Not classified
Sodium Nitrate	(CAS-No.) 7631-99-4	≥1.4 - <2.5	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Aquatic Acute Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

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 : Obtain emergency medical attention. Do not induce vomiting. Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : May damage fertility or the unborn child.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Eye irritation.

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

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. 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

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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 : Collect spillage.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Disodium Tetraborate, Anhydrous (1330-43-4)		
Thailand	OEL TWA (mg/m³)	1 mg/m³

Exposure limit values for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

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

8.4. Personal protective equipment

Materials for protective clothing : Workclothes protecting arms, legs and body.

Hand protection : Protective gloves

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

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state : Liquid

Appearance : Liquid.

Colour : Red to Purple.

Odour : odourless.

Odour threshold : No data available

pH	:	12
Melting point, Freezing point	:	Melting point: Not applicable Freezing point: -5 °C
Boiling point	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Flammability (solid, gas)	:	Not applicable
Vapour pressure	:	Vapour pressure: 2.4 kPa
Evaporation rate	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available
Minimum ignition energy	:	No data available
Solubility	:	Water: 100 %
Density	:	Density: 1.12 g/ml Relative density: 1.12
Relative density	:	Relative vapour density at 20 °C: ≤ 1
Viscosity	:	Viscosity, dynamic: 8 cP

SECTION 10: Stability and reactivity

Chemical stability	:	Stable under normal conditions
Conditions to avoid	:	Direct sunlight,Extremely high or low temperatures
Hazardous decomposition products	:	fume,Carbon monoxide,Carbon dioxide
Incompatible materials	:	Strong acids,Strong bases
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of 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)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

ATE TH (oral)	1921.118 mg/kg bodyweight
Unknown acute toxicity (GHS TH)	7.33% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 5.97% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Sodium Nitrite (7632-00-0)	
LD50 oral rat	85 mg/kg
LD50 oral	77 mg/kg
LC50 Inhalation - Rat	5.5 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	5.5 mg/l/4h

Disodium Tetraborate, Anhydrous (1330-43-4)	
LD50 oral rat	2660 mg/kg
LD50 oral	2660 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 2 mg/m³ (Exposure time: 4 h)

Disodium Trioxosilicate (6834-92-0)	
LD50 oral rat	1153 mg/kg
LD50 oral	600 mg/kg

Sodium Nitrate (7631-99-4)	
LD50 oral rat	1267 mg/kg
LD50 oral	3700 mg/kg

Skin corrosion/irritation	:	Causes skin irritation. pH: 12

Serious eye damage/irritation	:	Causes serious eye irritation.
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

Supplemental Coolant Additive	
Viscosity, kinematic (calculated value) (40 °C)	7.143 mm²/s
Density	1.12 g/ml

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	:	Toxic to aquatic life.
Unknown hazards to the aquatic environment (GHS TH)	:	Contains 0.13 % of components with unknown hazards to the aquatic environment
Hazardous to the aquatic environment, short-term (acute)	:	Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	:	Not classified

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])
Partition coefficient n-octanol/water (Log Pow)	-3.7 (at 25 °C)

Disodium Tetraborate, Anhydrous (1330-43-4)	
LC50 fish 1	340 mg/l (Exposure time: 96 h - Species: Limanda limanda)
EC50 Daphnia 1	1085 – 1402 mg/l (Exposure time: 48 h - Species: Daphnia magna)
BCF fish 1	(no evidence of bioaccumulation)

Disodium Trioxosilicate (6834-92-0)	
LC50 fish 1	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 fish 2	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

Sodium Nitrate (7631-99-4)	
LC50 fish 1	2000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish 2	994.4 – 1107 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Partition coefficient n-octanol/water (Log Pow)	-3.8 (at 25 °C)

12.2. Persistence and degradability

Supplemental Coolant Additive	
Persistence and degradability	No additional information available

Disodium Trioxosilicate (6834-92-0)
Not rapidly degradable

Sodium Nitrate (7631-99-4)
Not rapidly degradable

12.3. Bioaccumulative potential

Supplemental Coolant Additive	
Bioaccumulative potential	No additional information available

Sodium Nitrite (7632-00-0)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology

Disodium Tetraborate, Anhydrous (1330-43-4)	
BCF fish 1	See section 12.1 on ecotoxicology

Sodium Nitrate (7631-99-4)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology

12.4. Mobility in soil

Supplemental Coolant Additive	
Mobility in soil	No additional information available

Sodium Nitrite (7632-00-0)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology

Sodium Nitrate (7631-99-4)	
Partition coefficient n-octanol/water (Log Pow)	See section 12.1 on ecotoxicology

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated for transport		
Not applicable	Not applicable	Not applicable
14.2. Proper Shipping Name		
Non Regulated	Non Regulated	Non Regulated
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

- UN RTDG

No data available

- IMDG

No data available

- IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No additional information available

15.2. International agreements

Regional legislation

Australia AICS : Not Determined

Canada DSL : Not Determined

Canada NDSL : Not Determined

China IECSC : Not Determined

EU EINECS	:	Not Determined
EU ELINCS	:	Not Determined
EU NLP	:	Not Determined
Korea ECL	:	Not Determined
US TSCA	:	Yes

SECTION 16: Other information

Version	:	1.0
Issue date	:	11/4/2020
Other information	:	None.

Full text of H-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. 5 (Oral)	Acute toxicity (oral), Category 5
Acute Tox. Not classified (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Not classified
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Acute 2	Hazardous to the aquatic environment — Acute Hazard, Category 2
Aquatic Acute Not classified	Hazardous to the aquatic environment - Acute Hazard Not classified
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Sol. Not classified	Flammable solids Not classified
Met. Corr. 1	Corrosive to metals, Category 1
Met. Corr. Not classified	Corrosive to metals Not classified
Ox. Sol. 2	Oxidising Solids, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
Ox. Sol. Not classified	Oxidising solids Not classified
Pyr. Sol. Not classified	Pyrophoric solids Not classified
Repr. 1A	Reproductive toxicity, Category 1A
Self-heat. Not classified	Self-heating substances and mixtures Not classified
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life

SDS Thailand - Dober

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