

SECTION 1: Identification of the hazardous chemical and of the supplier

Product identifier

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

Other means of identification

No additional information available

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

Recommended use : Industrial Applications

Supplier's details

Supplier

Terra Cat Industrial
 16 Branston Street
 P.O. Box 16-168
 Christchurch 8441
 New Zealand

Manufacturer

Dober
 11230 Katherine's Crossing
 Woodridge, IL 60517-5075

Emergency and General Information:

Emergency Response: 111
 National Poisons Centre: 0800 764 766
 Product Information: 0800 933 939
 General Contact Number: 03 983 2333
 Web: goughcat.co.nz

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

ECOTV-B	Ecotoxicity to terrestrial vertebrates B
ACOR-4	6.1D: Acute Tox. 4 (Oral)
SKCO-2	6.3A: Skin Irrit. 2
EYDA-2A	6.4A: Eye Irrit. 2A
SKSE-NC	Skin Sens. Not classified
TORE-1B	6.8A: Repr. 1B
AEAH-NC	Aquatic Acute Not classified

2.2. Label elements

Hazard pictograms (GHS NZ) :



Signal word (GHS NZ) :

Danger

Contains :

Disodium Tetraborate, Anhydrous; Sodium Nitrate; Disodium Trioxosilicate; Sodium Nitrite

Hazard statements (GHS NZ) :

H302 - Harmful if swallowed
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H360 - May damage fertility or the unborn child
 H432 - Toxic to terrestrial vertebrates

Precautionary statements (GHS NZ) :

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 Protective gloves, Eye protection, Protective clothing.
 P281 - Use personal protective equipment as required.
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Supplemental Coolant Additive

Safety Data Sheet

P302+P352 - IF ON SKIN: Wash with plenty of soap and 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/attention.
P330 - Rinse mouth.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P391 - Collect spillage.
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 and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS (Rev. 4, 2011)
Sodium Nitrite	(CAS-No.) 7632-00-0	1 - 5	Ecotoxicity to terrestrial vertebrates B, H432 5.1.1C: Ox. Sol. 3, H272 6.1C: Acute Tox. 3 (Oral), H301 Acute Tox. Not classified (Inhalation:dust,mist) 9.1A: Aquatic Acute 1, H400
Disodium Tetraborate, Anhydrous	(CAS-No.) 1330-43-4	1 - 5	Flam. Sol. Not classified Pyr. Sol. Not classified Self-heat. Not classified Ox. Sol. Not classified 6.1E: Acute Tox. 5 (Oral), H303 6.8A: Repr. 1B, H360 Aquatic Acute Not classified
Disodium Trioxosilicate	(CAS-No.) 6834-92-0	1 - 5	Ecotoxicity to terrestrial vertebrates C, H433 6.1D: Acute Tox. 4 (Oral), H302 8.2B: Skin Corr. 1B, H314 6.9 (Respiratory tract irritant) : STOT SE 3, H335 Aquatic Acute Not classified
Sodium Nitrate	(CAS-No.) 7631-99-4	1 - 5	Ecotoxicity to terrestrial vertebrates C, H433 5.1.1C: Ox. Sol. 3, H272 6.1D: Acute Tox. 4 (Oral), H302 6.4A: Eye Irrit. 2A, H319 Aquatic Acute Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. 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	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician 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	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Supplemental Coolant Additive

Safety Data Sheet

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well-ventilated place. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Disodium Tetraborate, Anhydrous (1330-43-4)		
New Zealand	TWA (mg/m ³)	1 mg/m ³
Malaysia	PEL TWA (mg/m ³)	1 mg/m ³
Japan	Exposure limits (ACGIH)	TWA 2 mg/m ³ (l), STEL 6 mg/m ³ (l)
Korea	ISHA TWA (mg/m ³)	1 mg/m ³ (anhydrous)
Singapore	OEL PEL (mg/m ³)	1 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	3 mg/m ³ (calculated)
USA - ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA - ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (inhalable particulate matter)
USA - ACGIH	ACGIH STEL (mg/m ³)	6 mg/m ³ (inhalable particulate matter)

Exposure limit values of other components

Sodium Nitrite (7632-00-0)		
Germany	TRGS 900 Occupational exposure limit value (ppm)	

Disodium Tetraborate, Anhydrous (1330-43-4)		
New Zealand	TWA (mg/m ³)	1 mg/m ³
Malaysia	PEL TWA (mg/m ³)	1 mg/m ³
Japan	Exposure limits (ACGIH)	TWA 2 mg/m ³ (l), STEL 6 mg/m ³ (l)

Supplemental Coolant Additive

Safety Data Sheet

Disodium Tetraborate, Anhydrous (1330-43-4)			
Korea	ISHA TWA (mg/m ³)	1 mg/m ³ (anhydrous)	
Singapore	OEL PEL (mg/m ³)	1 mg/m ³	
Germany	TRGS 900 Occupational exposure limit value (ppm)		
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³	
United Kingdom	WEL STEL (mg/m ³)	3 mg/m ³ (calculated)	
USA - ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA - ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (inhalable particulate matter)	
USA - ACGIH	ACGIH STEL (mg/m ³)	6 mg/m ³ (inhalable particulate matter)	

Disodium Trioxosilicate (6834-92-0)			
Germany	TRGS 900 Occupational exposure limit value (ppm)		

Sodium Nitrate (7631-99-4)			
Germany	TRGS 900 Occupational exposure limit value (ppm)		

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

No additional information available

8.4. Individual protection measures, such as personal protective equipment (PPE)

No additional information available

Hand protection	: Wear 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. Wear appropriate mask

SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Red to Purple
Odor	: odorless
Odor threshold	: No data available
pH	: 12
Evaporation rate	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point / Freezing point	: Freezing point : -5 °C
Boiling point	: No data available
Flash point	: Not Applicable.
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapor pressure	: Vapor pressure : 2.4 kPa
Relative density	: Relative vapor density at 20 °C : ≤ 1
Specific gravity / density	: Specific gravity / density : 1.12 g/ml Relative density : 1.12
Solubility	: Water : 100 %
Log Pow	: No data available
Viscosity	: Viscosity, dynamic : 8 cP
Explosive properties	: No data available
Explosion limits	: No data available
Minimum ignition energy	: No data available

Supplemental Coolant Additive

Safety Data Sheet

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport. The product is non-reactive under normal conditions of use, storage and transport
Chemical stability	: Stable under normal conditions. Not established.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use. Not established.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
Incompatible materials	: Strong acids. Strong bases.
Hazardous decomposition products	: fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ATE NZ (oral)	1921.05699457 mg/kg body weight
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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

Disodium Tetraborate, Anhydrous (1330-43-4)

LD50 oral rat	2660 mg/kg
LD50 oral	1200 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2 mg/m ³ (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	: Not classified
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified

Supplemental Coolant Additive

Viscosity, kinematic (calculated value) (40 °C)	7.14285714 mm ² /s
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Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - water	: Toxic to aquatic life.
Aquatic acute	: Not classified.
Aquatic chronic	: Not classified
Soil toxicity	: Not classified
Terrestrial vertebrate toxicity	: Toxic to terrestrial vertebrates.
Terrestrial invertebrate toxicity	: Not classified
Other information	: Avoid release to the environment.

Supplemental Coolant Additive

Safety Data Sheet

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])
Log Pow	-3.7 (at 25 °C)
LD50 oral rat	85 mg/kg
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)
LD50 dermal rabbit	> 2000 mg/kg
LD50 oral rat	2660 mg/kg
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)
LD50 oral rat	1153 mg/kg
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])
Log Pow	-3.8 (at 25 °C)
LD50 oral rat	1267 mg/kg

12.2. Persistence and degradability

Supplemental Coolant Additive	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Supplemental Coolant Additive	
Bioaccumulative potential	Not established.

Sodium Nitrite (7632-00-0)	
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)	
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)	
Log Pow	See section 12.1 on ecotoxicology
Sodium Nitrate (7631-99-4)	
Log Pow	See section 12.1 on ecotoxicology

12.5. Other adverse effects

Ozone	: Not classified
GWPmix comment	: No known effects from this product.
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

IMDG	IATA	UNRTDG
14.1. UN number		
Not applicable	Not applicable	Not applicable
14.2. Proper Shipping Name		
Non Regulated	Non Regulated	Non Regulated
14.3. Transport hazard class(es)		

Supplemental Coolant Additive

Safety Data Sheet

IMDG	IATA	UNRTDG
14.1. UN number		
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

14.8. 14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

15.2. 15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Date of issue : 7/9/2018

Other information : None.

Full text of H-phrases:

5.1.1C: Ox. Sol. 3	5.1.1C: Oxidizing solids Category 3
6.1C: Acute Tox. 3 (Oral)	6.1C: Acute toxicity (oral) Category 3
6.1D: Acute Tox. 4 (Oral)	6.1D: Acute toxicity (oral) Category 4
6.1E: Acute Tox. 5 (Oral)	6.1E: Acute toxicity (oral) Category 5
6.3A: Skin Irrit. 2	6.3A: Skin corrosion/irritation Category 2
6.4A: Eye Irrit. 2A	6.4A: Serious eye damage/eye irritation Category 2A
6.8A: Repr. 1B	6.8A: Reproductive toxicity Category 1B
6.9 (Respiratory tract irritant) : STOT SE 3	6.9 (Respiratory tract irritant) : Specific target organ toxicity (single exposure) Category 3
8.2B: Skin Corr. 1B	8.2B: Skin corrosion/irritation Category 1B
9.1A: Aquatic Acute 1	9.1A: Hazardous to the aquatic environment - Acute Hazard Category 1
Acute Tox. Not classified (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Not classified
Aquatic Acute Not classified	Hazardous to the aquatic environment - Acute Hazard Not classified
Ecotoxicity to terrestrial vertebrates B	9.3B: Ecotoxicity to terrestrial vertebrates B

Supplemental Coolant Additive

Safety Data Sheet

Ecotoxicity to terrestrial vertebrates C	9.3C: Ecotoxicity to terrestrial vertebrates C
Flam. Sol. Not classified	Flammable solids Not classified
Ox. Sol. Not classified	Oxidising solids Not classified
Pyr. Sol. Not classified	Pyrophoric solids Not classified
Self-heat. Not classified	Self-heating substances and mixtures Not classified
Skin Sens. Not classified	Skin sensitisation Not classified
H272	May intensify fire; oxidizer
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
H432	Toxic to terrestrial vertebrates
H433	Harmful to terrestrial vertebrates

SDS New Zealand

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.