



Safety Data Sheet

Cooling System/Radiator Treatment

Rev 07-21-22

1. Identification

Product name: Cooling System/Radiator Treatment
Product code(s): 4003B
Recommended use: Automotive Care Products, Cooling system treatment
Restrictions on use: None known
Manufacturer: Petra Automotive Products, Inc.
11085 Regency Green Dr.
Cypress, TX 77429
T (713) 856-5700
www.petraautoproducts.com
Emergency number: (Chemical Spills, Leaks, Fire, Exposure or Accident only):
CHEMTREC U.S. 800-424-9300 | INTERNATIONAL 703-527-3887
Issue date: 07/21/2022

2. Hazard(s) identification

Classification:

Physical hazards	Health hazards
Not classified	Skin corrosion/irritation Category 2 Eye irritation Category 2 Skin sensitization, Category 1 Reproductive toxicity Category 2

GHS US labeling:

Warning!



Hazard statements (GHS US)	Precautionary statements (GHS US)
H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H361 - Suspected of damaging fertility or the unborn child.	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing mist, vapors. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear eye protection, protective gloves. P308+P313 - If exposed or concerned: Get medical advice/attention. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P302+P352 - If on skin: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it 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.

3: Composition/Information on ingredients

Component	CAS-No.	Amount (%)
Sodium nitrite	7632-00-0	<5
Sodium Nitrate	7631-99-4	<3
Disodium Tetraborate, Anhydrous	1330-43-4	<1
Sodium Mercaptobenzothiazole	2492-26-4	<1
Sodium Tolyltriazole	64665-57-2	<1

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

4. First-aid measures

Inhalation: Move the affected person to fresh air. Get medical attention if symptoms occur.

Skin: Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion: Call a poison center or a doctor if you feel unwell.

Symptoms/effects: May cause moderate irritation to the eyes. May cause irritation to skin. May cause sensitization by skin contact. This product may cause reproductive harm and/or developmental effects.

Immediate medical attention and special treatment, if necessary: Not required.

5. Fire-fighting measures

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: None.

Fire hazard: This product is not classified as flammable or combustible. Thermal decomposition generates: Carbon oxides (CO, CO₂). Nitrogen oxides. Metallic oxides.

Special protective equipment and precautions for fire-fighters: Use water spray or fog for cooling exposed containers. Prevent runoff from entering water courses, sewers and basements. Use self-contained breathing apparatus and chemically protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Stop leak if safe to do so. Avoid contact with eyes, skin and clothing. Wear suitable protective clothing. Ventilate spillage area.

Methods and material for containment and cleaning up: Do not touch or walk on the spilled product. Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

7. Handling and storage

Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Wash hands with water and soap. Wear personal protective equipment. Avoid breathing mist, vapors. Ensure adequate ventilation.

Storage conditions: Store in dry, cool, well-ventilated area. Keep away from heat and direct sunlight.

8. Exposure controls/personal protection

Exposure guidelines:	
Sodium nitrite	None established.
Sodium Nitrate	None established.
Disodium Tetraborate, Anhydrous	2 mg/m ³ (Inhalable particulate matter) TWA ACGIH TLV 6 mg/m ³ (Inhalable particulate matter) STEL ACGIH TLV
Sodium Mercaptobenzothiazole	None established.
Sodium Tolyltriazole	None established.

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Environmental exposure controls: Avoid release to the environment.

Personal protective equipment:

Hand protection: Wear impervious gloves. Consult supplier for specific recommendations.

Eye protection: Wear safety goggles or other eye protection to prevent eye contact.

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and chemical properties

Appearance: Colorless to pale yellow liquid.

Physical state : Liquid

Color : colorless to pale yellow

Odor : Odorless

Odor threshold : No data available

pH : 10.3

Melting point : Not applicable

Freezing point : 32 °F (0 °C)

Boiling point : 212 °F (100 °C)

Flash point : No data available

Relative evaporation rate : No data available
(butyl acetate=1)

Flammability : Not applicable.

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : No data available

Solubility	: Soluble in water.	Viscosity, kinematic	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available	Viscosity, dynamic	: No data available
Auto-ignition temperature	: Not applicable	Explosion limits	: Not applicable
Decomposition temperature	: No data available	Explosive properties	: Not applicable
		Oxidizing properties	: No data available

10. Stability and 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: Direct sunlight. Extremely high or low temperatures.

Incompatible materials: Strong acids. Strong bases.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Inhalation: May cause minor irritation to the respiratory tract and to other mucous membranes.

Skin: May cause moderate irritation. May cause an allergic skin reaction.

Eyes: May cause moderate irritation to the eyes.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms: This product may cause reproductive harm and/or developmental effects.

Carcinogenicity:	Not classified
Sodium nitrite:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Sodium Nitrate:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Disodium Tetraborate, Anhydrous:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Sodium Mercaptobenzothiazole:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Sodium Tolyltriazole:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Germ cell mutagenicity:	Not classified
Reproductive toxicity:	Suspected of damaging fertility or the unborn child (if swallowed).
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Numerical measures of toxicity:

The following are the toxicity values for the components:

Sodium nitrite	180 mg/kg LD50 oral rat
Sodium Nitrate	≈ 3430 mg/kg LD50 oral rat; > 5000 mg/kg LD50 dermal rat
Disodium Tetraborate, Anhydrous	3450 mg/kg LD50 oral rat; > 2000 mg/kg LD50 dermal rabbit; > 2.04 mg/l/4h LC50 Inhalation - Rat (Dust/Mist)
Sodium Mercaptobenzothiazole	2100 mg/kg LD50 oral rat; > 7940 mg/kg LD50 dermal rabbit
Sodium Tolyltriazole	735 mg/kg LD50 oral rat; > 2000 mg/kg LD50 dermal rabbit
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause an allergic skin reaction.
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

12. Ecological information

Ecology - general: Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Ecotoxicity:

Sodium nitrite	0.54 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout) LC50 - Fish [1]; 15.4 mg/l <i>Daphnia magna</i> (Water flea) EC50 - Crustacea [1]; > 100 mg/l <i>Desmodesmus subspicatus</i> EC50 72h - Algae [1]
Sodium Nitrate	1559 mg/l LC50 - Fish [1]; 1354 mg/l LC50 - Fish [2]
Disodium Tetraborate, Anhydrous	79.7 mg/l <i>Pimephales promelas</i> (Fathead minnow) LC50 - Fish [1]; 130 mg/l EC50 - Crustacea [1]; 66 mg/l <i>Phaeodactylum tricornutum</i> EC50 72h - Algae [1]; 6.6 mg/l NOEC (chronic); 6.4 mg/l <i>Danio rerio</i> (Zebrafish) NOEC chronic fish
Sodium Mercaptobenzothiazole	0.73 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout) LC50 - Fish [1]; 0.71 mg/l <i>Daphnia magna</i> (Water flea) EC50 - Crustacea [1]; 0.5 mg/l <i>Pseudokirchneriella subcapitata</i> EC50 72h - Algae [1]; 0.08 mg/l <i>Daphnia magna</i> (Water flea) NOEC (chronic); 0.041 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout) NOEC chronic fish
Sodium Tolyltriazole	55 mg/l <i>Cyprinodon variegatus</i> (sheepshead minnow) LC50 - Fish [1]; 75 mg/l <i>Raphidocelis subcapitata</i> ErC50 algae; 15.8 mg/l <i>Daphnia galeata</i> EC50 - Crustacea [1]; 8.58 mg/l <i>Daphnia galeata</i> EC50 - Crustacea [2]; 18.4 mg/l <i>Daphnia magna</i> (Water flea) NOEC (chronic)

Persistence and degradability:

Sodium Nitrate: Biodegradation is not applicable to inorganic compounds.

Bioaccumulative potential:

No data available

Sodium Tolyltriazole:

LOG POW0.14 Source: Ecological Structure Activity Relationships;

Mobility in soil:

No data available

Sodium Tolyltriazole:

1.322 Source: EPI Suite

Other adverse effects:

No data available

13. Disposal considerations

Regional legislation (waste): Dispose of in accordance with applicable federal, state, and local regulations.

14. Transport information**Department of Transportation (DOT)**

Not regulated for transport

Transport by sea

Not regulated for transport

Air transport

Not regulated for transport

15. Regulatory information**SARA Section 313 - Emission Reporting:**

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Sodium nitrite	7632-00-0	<5%
Sodium Nitrate (Prills or Granules)	7631-99-4	<3%

CERCLA Section 103:

Sodium nitrite	7632-00-0	100 lb
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SARA 302:

Not applicable

SARA Section 311/312 Hazard Classes: Refer to Section 2 for OSHA Hazard Classification.

California Proposition 65:**WARNING:**

This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

TSCA: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

16. Other information

Issue date : 07/21/2022

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. The company listed in Section 1 shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.