

MAXIMA COOL-AIDE MSDS



MATERIAL SAFETY DATA SHEET

PRODUCT

ENGINE COOL-AIDE

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ENGINE COOL-AIDE
CODE NUMBER: 84916 / 84964
APPLICATION: COOLING TREATMENT FLUID

COMPANY IDENTIFICATION: Maxima Racing Lubricants
9266 Abraham Way
Santee, CA 92071

31N 37050001

EMERGENCY TELEPHONE NUMBER(S):

NFPA RATING

HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0 OTHER:
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

2 COMPOSITION/INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical substance(s) as hazardous.
Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s):	CAS NO.	% (w/w)
Sodium Metasilicate	6834-92-0	1.0 - 5.0
Sodium Tetraborate	1330-43-4	1.0 - 5.0
Sodium Nitrite	7632-00-0	1.0 - 5.0
Sodium Nitrate	7631-99-4	1.0 - 5.0

3 HAZARDOUS IDENTIFICATION****EMERGENCY OVERVIEW******WARNING**

Contains sodium nitrite. May be harmful or fatal if swallowed. Substances in the product can lead to the formation of methemoglobin. Unborn children are particularly sensitive to methemoglobinemia. May cause skin and eye irritation. May cause sensitization by skin contact. Do not get into eyes, on skin or on clothing. Do not take internally. Keep container tightly closed. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. If swallowed, seek medical advice immediately and show container or label. Protect product from freezing. Wear suitable protective clothing, gloves and eye/face protection. May evolve oxides of carbon (Cox) under fire conditions. May evolve oxides of nitrogen (Nox) under fire conditions. If product is allowed to dry, the sodium nitrite is an oxidizing agent and can initiate the combustion of other materials.

PRIMARY ROUTES OF EXPOSURE:

Eye, Skin

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HUMAN HEALTH HAZARDS - ACUTE:

EYE CONTACT:

Can cause mild to moderate irritation.

SKIN CONTACT:

Can cause mild irritation.

INGESTION:

Not a likely route of exposure. Large exposures may be fatal. Ingestion of sodium nitrite can cause methemoglobinemia which can lead to cyanosis and possible death. Pregnant women and their fetuses are particularly sensitive to the effects of methemoglobinemia.

INHALATION:

Not a likely route of exposure. Aerosols or product mist may irritate the upper respiratory tract.

SYMPTOMS OF EXPOSURE:

Acute:

A review of available data does not identify any symptoms from exposure not previously mentioned.

Chronic:

A review of available data does not identify any symptoms from exposure not previously mentioned.

AGGRAVATION OF EXISTING CONDITIONS:

Sodium Nitrite. Pregnant women are particularly sensitive to methemoglobinemia.

HUMAN HEALTH HAZARDS - CHRONIC:

Repeated ingestion of small amounts of sodium nitrite causes drops in blood pressure, rapid pulse, headaches and visual disturbances. It may also react with organic amines in the body to form carcinogenic nitrosamines.

4 FIRST AID MEASURES

EYE CONTACT:

Immediately flush eye with water for at least 15 minutes while holding eyelids open. If irritation, persists, repeat flushing. Get immediate medical attention.

SKIN CONTACT:

Immediately flush with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

INGESTION:

Induce vomiting if the patient is fully conscious. If conscious, washout mouth and give water to drink. Get immediate medical attention.

INHALATION:

Remove to fresh air, treat symptomatically. Get medical attention.

NOTE TO PHYSICIAN:

Based on individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition. Measures against circulatory shock, respiratory depression and convulsions may be needed.

5 FIRE FIGHTING MEASURES

FLASH POINT: None

EXTINGUISHING MEDIA:

Not expected to burn. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD:

May evolve oxides of nitrogen (Nox) under fire conditions. If product is allowed to dry, the sodium nitrite is an oxidizing agent and can initiate the combustion of other materials.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:

In case of fire, wear a full face positive-pressure self-contained breathing apparatus and protective suit.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Restrict access to area as appropriate until clean-up operations are complete. Ensure clean-up is conducted by trained personnel only. Ventilate spill area if possible. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection.) Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP:

SMALL SPILLS: Soak up with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Wash site of spillage thoroughly with water. Contact an approved waste hauler for disposal of contaminated material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations.)

ENVIRONMENTAL PRECAUTIONS:

Do not contaminate surface water.

7 HANDLING AND STORAGE

HANDLING:

Avoid eye and skin contact. Do not take internally. Do not get in eyes, on skin or on clothing. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled. Keep the containers closed when not in use. Use with adequate ventilation.

STORAGE CONDITIONS:

Store the containers tightly closed. Store in suitable labeled containers.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below:

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ACGIH/TLV:

Substance(s)

Borates, Tetra, Sodium

TWA: 1mg/m3

Salts -- Anhydrous

OSHA/PEL:

Substance(s)

Borates, Tetra, Sodium

TWA: 10mg/m3

Salts -- Anhydrous

ENGINEERING MEASURES:

General ventilation is recommended.

RESPIRATORY PROTECTION:

Respiratory protection is not normally needed.

HAND PROTECTION:

Neoprene gloves, Nitrile gloves, Butyl gloves, PVC gloves

SKIN PROTECTION:

Wear standard protective clothing.

EYE PROTECTION:

Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS:

If clothing is contaminated, remove clothing and thoroughly wash affected area. Launder contaminated clothing before reuse. Keep an eye wash fountain available. Keep a safety shower available.

HUMAN EXPOSURE CHARACTERIZATION:

Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Liquid

APPEARANCE Purple

ODOR None

SPECIFIC GRAVITY 1.095 - 1.125 @ 77°F / 25°C

DENSITY 9.4 lb/gal

SOLUBILITY IN WATER Complete

Ph (100%) 11 - 12.0

FREEZING POINT 32°F / 0°C

BOILING POINT 212°F / 100°C

10 STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

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HAZARDOUS POLYMERIZATION:

Hazardous polymerization will not occur.

CONDITIONS TO AVOID:

Freezing temperatures.

MATERIALS TO AVOID:

Contact with reducing agents (e.g., hydrazine, sulfites, sulfide, aluminum or magnesium dust) may generate heat, fire, explosions and toxic vapors. Do not mix with amines. Sodium nitrite can react with certain amines to produce N-nitrosamines, many of which are cancer-causing agents in laboratory animals. Contact with strong acids (e.g., sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors.

HAZARDOUS DECOMPOSITION PRODUCTS:

Under fire conditions: Oxides of carbon, Oxides of nitrogen

11 TOXICOLOGICAL INFORMATION

The following results are for the product:

ACUTE ORAL TOXICITY:

Species	LD50	Test Descriptor
Rat	>2,000 mg/kg	Product
Rating:	Non-Hazardous	

CARCINOGENICITY:

None of the substances in this product are listed as carcinogens by the International Agency for Research Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH.)

HUMAN HAZARD CHARACTERIZATION:

Based on our hazard characterization, the potential human hazard is: Moderate

12 ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS:

The following results are for the product:

ACUTE FISH RESULTS:

Species	Exposure	LC50	Test Descriptor
Rainbow Trout	96hrs	57 mg/l	Product

Rating: Slightly toxic

ACUTE INVERTEBRATE RESULTS:

Species	Exposure	LC50	EC50	Test Descriptor
Daphnia magna	48hrs	670 mg/l		Product

Rating: Essentially non-toxic

PERSISTENCY AND DEGRADATION:

Total Organic Carbon (TOC): 37,000 mg/l

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Chemical Oxygen Demand (COD): 23,000 mg/l

Biological Oxygen Demand (BOD):

Incubation Period	Value	Test Descriptor
	703 mg/l	

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Low

Based on our recommendation product application and the product's characteristics, the potential environmental exposure is: Low

If released into the environment, see CERCLA/SUPERFUND in Section 15.

13 DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Hazardous wastes must be transported by a licensed hazardous waste transporter and disposed of or treated in a properly licensed hazardous waste treatment, storage or recycling facility. Consult local, state and federal regulations for specific requirements.

14 TRANSPORT INFORMATION

The information in this section is for reference only and should not take place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties and mode of transportation. Typical Proper Shipping Names for this product are:

LAND TRANSPORT:

Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S.
Technical Name(s):	Sodium Nitrite
UN/ID No:	UN 3082
Hazard Class - Primary:	9
Packing Group:	III
Flash Point:	None

DOT Reportable Quantity (per package): 2,000 lbs.

DOT RQ Component: Sodium Nitrite

AIR TRANSPORT (IMDG/IMO):

Proper Shipping Name: Product is not regulated during transportation

15 REGULATORY INFORMATION

NATIONAL REGULATIONS, USA:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.

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Sodium Metasilicate: Corrosive
Sodium Tetraborate: Irritant
Sodium Nitrite: Target Organ Effect - Kidney, Nervous System, Blood
Sodium Nitrate: Oxidizer

CERLA/SUPERFUND, 40 CFR 117, 302:

This product contains the following Reportable Quantity (RQ) Substance. Also listed is the RQ for the product. If a reportable quantity of product is released, it requires notification to the National Response Center, Washington, D.C. (1-800-424-8802.)

<u>RQ Substance</u>	<u>RQ</u>
Sodium Nitrite	2,000 lbs.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) -
SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA categories:

- ☒ Immediate (Acute) Health Hazard
- ☒ Delayed (Chronic) Health Hazard
- Fire Hazard
- Sudden Release of Pressure Hazard
- Reactive Hazard

UNDER SARA 311 AND 312, the EPA has established threshold quantities for the following reportable of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):

This product contains the following substance(s), (with CAS # and % range) which appear(s) on the List of Toxic Chemicals

<u>Hazardous Substance(s)</u>	<u>CAS No.</u>	<u>% (w/w)</u>
Sodium Nitrite	7632-00-0	1.0 - 5.0
Sodium Nitrate	7631-99-4	1.0 - 5.0

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR / formerly Sec. 311:

This product contains the following substances listed in the regulation:

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Substances
Sodium Nitrite

Citations
Sec. 311

CLEAN AIR ACT, Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances):
None of the above substances are specifically listed in the regulation.

CALIFORNIA PROPOSITION 65:

This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS:

None of the substances are specifically listed in the regulation.

STATE RIGHT TO KNOW LAWS:

The following substances are disclosed for compliance with State Right to Know Laws:

Sodium Nitrate	7631-99-4
Sodium Nitrite	7632-00-0
Sodium Tetraborate	1330-43-4

NATIONAL REGULATIONS, CANADA:

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS CLASSIFICATION:

D2A - Materials Causing Other Toxic Effects - Very Toxic Material, D2B - Materials Causing Other Toxic Effects - Toxic Material.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

16 OTHER INFORMATION

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

*The human risk is: Low
*The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

This product material data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training

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programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington D.C. (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight# (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By: Product Safety Department
Date Issued: 7/1/2004
Replaces: N/A