SAFETY DATA SHEET

U.S. HazCom GHS Format



Date Prepared: 06/30/2015

MSDS No: TAF-RS520

TAF Radiator Conditioner

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TAF Radiator Conditioner **GENERAL USE:** Radiator Conditioner

PRODUCT DESCRIPTION: Radiator Conditioner

PRODUCT CODE: RS-520

PRODUCT FORMULATION NAME: Radiator Conditioner & Booster

GENERIC NAME: Radiator Conditioner

MANUFACTURER

SMB International, LLC 121 Highway 36 STE 180

West Long Branch, NJ 07764

Emergency Contact: Responder (ESP Consulting LLC)

Emergency Phone: 1-877-756-4666 Customer Service: 732-222-4888 Transportation: 732-222-4888 Ext.100 E-Mail: msds@smbinternational.com

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical): (877) 800-5553 CANUTEC (Canadian Transportation): (613) 996-6666 CHEMTREC (US Transportation): (800) 424-9300

DISTRIBUTOR

KENVO TECHNOLOGY, INC TENARANA AUTOMOTIVE FLUIDS 11543 160ST NW CANADA

EDMONTON, AB T5M 3V9

Emergency Contact: Alyssa Fowler

Customer Service: 1-520-560-4766 E-Mail: alyssa@kenvo.com

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Category 4

Skin Irritation, Category 2 Eye Irritation, Category 2 Target Organ Toxicity (Repeated exposure), Category 2

GHS LABEL



Exclamation mark



Health hazard

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H373: May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

PRECAUTIONARY STATEMENT(S)

Prevention:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash ... thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor/...if you feel unwell.

P330: Rinse mouth.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352: IF ON SKIN: Wash with plenty of water/...

P362: Take off contaminated clothing.

P314: Get medical advice/attention if you feel unwell.

Disposal:

P501: Dispose of contents/container to ...

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CAUTION! May cause eye irritation. May be harmful if absorbed through the skin and if swallowed.

POTENTIAL HEALTH EFFECTS

EYES: Contact may cause eye irritation.

SKIN: Considered irritating to the skin. Repeated contact may cause moderate to severe irritation.

INGESTION: Ingestion of small amounts may cause vomiting. This material presents a severe aspiration danger and may result in pulmonary edema and sever lung damage.

INHALATION: Dust or vapor irritating to eyes and respiratory tract.

MEDICAL CONDITIONS AGGRAVATED: Persons with pre-existing skin disorders, eye problems, or impaired kidney function may be more susceptible to the effects of this material.

ROUTES OF ENTRY: Skin, inhalation and ingestion

TARGET ORGAN STATEMENT: Contains material which may cause eye, skin, gastrointestinal, respiratory, nervous system, kidney and liver damage.

IRRITANCY: May cause irritation to the eyes, skin and respiratory system.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vol. %	CAS
1,2-ethanediol	< 0 - 10	107-21-1
Ethanol, 2,2'-oxybis-	< 0 - 3	111-46-6
Proprietary Component	< 2.2	

COMMENTS: Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classifies as hazardous to health or the environment and hence require reporting in this section.

4. FIRST AID MEASURES

EYES: Rinse Immediately, flush eyes with plenty of water. After initial flushing, remove any contact lenses an continue flushing for at least 15 minutes. Also flush under the eyelids. If irritation persists. Consult a physician.

SKIN: Immediately remove all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. If irritation develops or persists seek medical attention. Wash contaminated clothing before re-use.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

INHALATION: Move the exposed person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Burning. Red eyes. Tearing.

SKIN: Contact may cause skin irritation.

INGESTION: Toxic if swallowed. Possible effects include headache, dizziness, cramp, unconsciousness and death. Nausea Vomiting Blindness Toxic: danger of very serious irreversible effects if swallowed. Never give anything by mouth to an unconscious person or a person with cramps.

INHALATION: Inhalation of mist may cause nose and throat irritation and nervous system effects.

NOTES TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical, or water fog. Do Not use water jet. Burning liquid may float on water **HAZARDOUS COMBUSTION PRODUCTS:** Oxides of Carbon.

FIRE FIGHTING PROCEDURES: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.

FIRE FIGHTING EQUIPMENT: Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.

LARGE SPILL: Always employ the proper personal protective equipment. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas through the use of berms. Collect liquid with explosion proof pumps if possible. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Fluorocarbon alcohol resistant foams may be applied to spill to dimmish vapor and fire hazard.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Depending on the size of the spill and the movement characteristics of the water into which it entered, consider use of booms, underflow or overflow dams. Diversion of the material is also an option. Mechanical skimmers, pads and other absorbent materials may be considered as well.

LAND SPILL: Construct temporary dikes of dirt, sand, or any appropriate readily available noncombustible (sawdust) material to prevent spreading of the material.

GENERAL PROCEDURES: Absorb with diatomaceous earth or equivalent inert material. Shovel up and dispose of at an appropriate waste disposal facility according to current applicable laws and regulations, and product characteristics at time of disposal.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use with sufficient ventilation to keep employee exposure below recommended limits.

HANDLING: Handle and use in a manner consistent with good industrial/manufacturing techniques and practices. Open and handle with care. Do not handle near heat, sparks, or flames. Avoid contact with incompatible agents. Use with adequate ventilation/personal protection. Do not enter storage area that is not adequately ventilated. Metal containers used in a transfer should be bonded and grounded. Use non-sparking tools. Observe good personal hygiene after handling this material.

STORAGE: Keep container tightly closed in a dry, cool and well-ventilated place.

STORAGE TEMPERATURE: Store in closed original container. Protect from direct sun light. Do not expose to temperatures exceeding 50 C/122 F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

EXI COUNTE GOIDEEINEC									
OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)									
			EXPOSURE LIMITS						
		OSHA PEL		ACGIH TLV		Supplier OEL			
Chemical Name		ppm	mg/m³	ppm	mg/m³	ppm	mg/m³		
1,2-ethanediol	TWA	NL	NL	NL	NL	NL	NL		
	STEL	C 50	C 125	C 50	C 127	NL	NL		

ENGINEERING CONTROLS: If vapors, or mists are generated, provide local exhaust ventilation to prevent airborne exposure. All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94)

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material. Maintain eye wash fountain and quick-drench facilities in work area.

SKIN: To prevent any contact, wear impervious protective clothing such as neoprene or butyl rubber gloves, apron, boots or whole bodysuit, as appropriate.

RESPIRATORY: No special precautions are necessary under normal operating conditions.

If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit or maximum use concentration specified by the respirator supplier or regulatory agency. A full-face organic vapor respirator may be employed for use in atmospheres that contain up to 50 times the exposure limit. For emergencies or instances where the exposure levels are not known a positive- pressure, full-face piece, air supplied respirator should be employed.

PROTECTIVE CLOTHING: Long sleeved clothing should always be considered when handling chemical substances.

WORK HYGIENIC PRACTICES: Good personal hygiene practices should always be followed. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Hands and any other exposed area should be washed thoroughly with soap and water after contact. Regular laundering of contaminated clothing is essential to reduce indirect skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Characteristic

APPEARANCE: Clear Liquid

COLOR: Varied Colors - (Green, Yellow, Red or Colorless)

pH: NA = Not Applicable

FLASH POINT AND METHOD: ~ 111°C (230°F) TAG CC

VAPOR PRESSURE: ~ 0.05 kPa at 20°C

BOILING POINT: ~ 170°C (338°F) to 200°C (392°F)

FREEZING POINT: ~ -36°C (-34°F)

MELTING POINT: ~ -12°C (10°F)

SOLUBILITY IN WATER: Completely soluble.

EVAPORATION RATE: Not yet Determined

DENSITY: ~ 1100 at 20°C

SPECIFIC GRAVITY: ~ 1150 kg/m3 at 15°C

VISCOSITY: Not yet Determined

10. STABILITY AND REACTIVITY

REACTIVITY: No

STABILITY: This product is stable under storage at normal ambient temperatures.

CONDITIONS TO AVOID: Oxidizing materials.

POSSIBILITY OF HAZARDOUS REACTIONS: Reaction with strong oxidizers will generate heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

INCOMPATIBLE MATERIALS: Acids, Alkali metals, Ammonia, Bases, halogens, Oxidizing agents, sodium, Sulphur compounds

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: 3500 mg/kg (Mouse)

ORAL LD₅₀: 7712 mg/kg (Rat)

INHALATION LC₅₀: 2.5 mg/l (vapours) Rat 6 hrs.

EYE EFFECTS: May cause temporary eye irritation.

SKIN EFFECTS: Material is a defatting agent and may result in soreness, inflammation and possible dermatitis.

CHRONIC: Prolonged or repeated inhalation exposure may produce signs of central nervous system involvement, particularly dizziness and jerking eye movements. Prolonged or repeated skin contact may cause skin sensitization and an associated dermatitis in some individuals.

CARCINOGENICITY

IARC: Not Listed by IARC

NTP: Not Listed by NTP

OSHA: Not Listed by OSHA

REPEATED DOSE EFFECTS: Ingestion - Harmful if swallowed

IRRITATION: Material is a defatting agent and may result in soreness, inflammation and possible dermatitis.

SENSITIZATION: May cause an allergic skin reaction.

REPRODUCTIVE EFFECTS: Ethylene glycol has been found to cause birth defects in laboratory animals. The significance of this

finding to humans has not been determined.

TARGET ORGANS: Eyes, Skin, Liver, Kidney, Central Nervous System, Blood and Lung

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Do not allow to enter into surface water or drains.

BIOACCUMULATION/ACCUMULATION: The product is not expected to be hazardous to the environment. Ecotoxicological data

on main components only.

DISTRIBUTION: Mobile in soils

AQUATIC TOXICITY (ACUTE): Fish

96-HOUR LC₅₀: 72860 mg/l (96 hours: Pimephales promelas (Fat-head Minnows)

48-HOUR EC₅₀: > 100 mg/l (48 h; Daphnia magna)

96-HOUR EC₅₀: > 6500 mg/l Selenastrum capricornutum

CHEMICAL FATE INFORMATION: Readily Biodegradable

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal must comply with federal, state, and local disposal or discharge laws.

FOR LARGE SPILLS: Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

PRODUCT DISPOSAL: Collect in appropriate containers. Dispose of waste at an appropriate waste disposal facility in accordance with current applicable laws and regulation, and product characteristics at time of disposal.

EMPTY CONTAINER: Do not re-use empty container. Empty container should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated (unless package contains a reportable quantity).

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 9,090 Lbs.

COMMENTS: Not classified as dangerous goods for carriage under US DOT/ADR/RID/AND/IMDG/ICAO/IATA regulations.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute health, chronic health

313 REPORTABLE INGREDIENTS: Yes

TITLE III NOTES: Section 313 (40 CFR 372)

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Section 103: Spills of this product over RQ (reportable quantity) must be reported to the National Response Center.

CERCLA RQ: The RQ for this product, based on the RQ for Ethylene Glycol (55% maximum) of 5,000 lbs., is 9,090 lbs. Some states may have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

REPORTABLE SPILL QUANTITY: 9,090 lbs (base: 55%)

EPA

EPA RQ INGREDIENT: Ethylene Glycol

CALIFORNIA PROPOSITION 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

16. OTHER INFORMATION

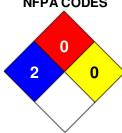
REASON FOR ISSUE: GHS SDS Format

APPROVED BY: Scott Margulis **TITLE:** Chief Operating Officer PREPARED BY: Scott Margulis Date Prepared: 06/30/2015

HMIS RATING

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	В

NFPA CODES



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ADDITIONAL MSDS INFORMATION: Prepared by: Responder (ESP Consulting, LLC) 877-756-4666

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