



RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

RXSOL-21-1002-012

Scotch Bite

Material Safety Data Sheet (MSDS)

1. Product and Company Identification

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Product Name	METHYL ETHYL KETONE
Part Number	RXSOL-19-1212-025

Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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2. Composition / Information on ingredients

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Name of Substance	Cas Number	Concentration*
METHYL ETHYL KETONE	78-93-3	100%

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

3. Hazards Identification

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POTENTIAL PHYSICAL / CHEMICAL EFFECTS	Flammable. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited.
POTENTIAL HEALTH EFFECTS	Irritating to eyes. If swallowed, may be aspirated and cause lung damage. May cause central nervous system depression.
Target Organs	Eye
NFPA Hazard ID	Health: 2
HMIS Hazard ID	Health: 1

Flammability	3 Reactivity: 0
Flammability	3 Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

4. First Aid Measures

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Eye contact	Flush thoroughly with water for at least 15 minutes. Get medical assistance.
Skin contact:	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
Ingestion	Seek immediate medical attention. Do not induce vomiting.
Inhalation	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
NOTE TO PHYSICIAN	If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

5. Fire-fighting Measures

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Appropriate Extinguishing Media	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Inappropriate Extinguishing Media: Straight Streams of Water.
FIRE FIGHTING	Fire Fighting Instructions: Evacuate area. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. Unusual Fire Hazards: Highly flammable. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Hazardous material, Firefighters should consider protective equipment indicated in Section 8. Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon.
FLAMMABILITY PROPERTIES	
Flash Point [Method]	-4C (25F) [ASTM D-56]
Flammable Limits (Approximate volume % in air)	LEL: 1.8 UEL: 11.5
Autoignition Temperature	>450°C (842°F)

6. Accidental Release Measures

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NOTIFICATION PROCEDURES	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.
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PROTECTIVE MEASURES	Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for firefighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for Personal Protective Equipment.
SPILL MANAGEMENT	Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large Spills: Use clean non-sparking tools to collect absorbed material.
Large Spills	Water spray may reduce vapor; but may not prevent ignition in closed spaces. Recover by pumping or with suitable absorbent.
Water Spill	Stop leak if you can do it without risk. Eliminate sources of ignition. Warn other shipping. Seek the advice of a specialist before using dispersants. Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted.
Note	Local regulations may prescribe or limit action to be taken.
ENVIRONMENTAL PRECAUTIONS	Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and Storage

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HANDLING	Avoid contact with skin. Avoid contact with eyes. Prevent exposure to ignition sources, for example use non-sparking tools and explosion-proof equipment. Potentially toxic/irritating fumes/vapors may be evolved from heated or agitated material. Use only with adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated. Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Prevent small spills and leakage to avoid slip hazard.
STORAGE	Ample fire water supply should be available. A fixed sprinkler/deluge system is recommended. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Outside or detached storage preferred. Storage containers should be grounded and bonded. Fixed storage containers, transfer containers and associated equipment should be grounded and bonded to prevent accumulation of static charge. Storage Temperature : [Ambient] Storage Pressure : [Ambient] Suitable Containers/Packing : Tank Trucks; Drums; Barges; Tank Cars Suitable Materials and Coatings (Chemical Compatibility): Carbon Steel; Stainless Steel; Polyester; Teflon; Butyl Rubber Unsuitable Materials and Coatings : Ethylene-propylene-diene monomer (EPDM); Polyacrylonitrile; Polypropylene; Polystyrene; Polyvinyl Alcohol; PVC; Polyethylene; Natural Rubber.

8. Exposure controls and personal protection

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EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Source	Form	Limit / Standard		Note	Source
METHYLETHYLKETONE	TWA	590 mg/m ³	200 ppm	N/A	OSHA Z1

METHYLETHYL KETONE	STEL	300 ppm		N/A	ACGIH
METHYLETHYL KETONE	TWA	200 ppm		N/A	ACGIH

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.
PERSONAL PROTECTION	Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.
Respiratory Protection	If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:
Half-face filter respirator	For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.
Hand Protection	Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.
Eye Protection	Chemical goggles are recommended.
Skin and Body Protection	Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.
Specific Hygiene Measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.
ENVIRONMENTAL CONTROLS	See Sections 6, 7, 12, 13.



Gloves



Suit

9. Physical and chemical properties

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Physical State	Liquid
Form	Clear
color	Colorless
Odor	Characteristic

Odor Threshold	N/D
Relative Density (at 20 C)	0.805
Flash Point [Method]	-4C (25F) [ASTM D-56]
Flammable Limits (Approximate volume % in air)	LEL: 1.8 UEL: 11.5
Autoignition Temperature	>450°C (842°F)
Boiling Point / Range	79C (173F) - 81C (178F)
Vapor Density (Air = 1)	> 1 at 101 kPa
Vapor Pressure	9.3 kPa (69.75 mm Hg) at 20 C 22.3 kPa (167.25mm Hg) at 38C 43.6 kPa (327 mm Hg) at 55C
Evaporation Rate (n-butyl acetate = 1)	6
pH	N/D
Log Pow (n-Octanol/Water Partition Coefficient)	N/D
Solubility in Water	Appreciable
Viscosity	[N/D at 40 °C] 0.52 cSt (0.52 mm2/sec) at 25C
Freezing Point	-86°C (-123°F)
Melting Point	N/D
Molecular Weight	72
Hygroscopic	Yes
Coefficient of Thermal Expansion	0.00129
Decomposition Temperature	N/D

10. Stability and reactivity

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STABILITY	Material is stable under normal conditions.
CONDITIONS TO AVOID	Avoid heat, sparks, open flames and other ignition sources.
MATERIALS TO AVOID	Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	Material does not decompose at ambient temperatures.
HAZARDOUS POLYMERIZATION	Will not occur.

11. Toxicological information

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Route of Exposure	Conclusion / Remarks
Inhalation	None
Toxicity: Data available.	Minimally Toxic. Based on test data for the material.
Irritation: Data available.	May be irritating to the respiratory tract. The effects are reversible. Based on test data for the material.
Ingestion	None
Toxicity: Data available	Minimally Toxic. Based on test data for the material.

Skin	
Toxicity: Data available	Minimally Toxic. Based on test data for the material.
Irritation: Data available	May dry the skin leading to discomfort and dermatitis. Based on test data for the material.
Eye	
Irritation: Data available	Irritating and will injure eye tissue. Based on test data for the material.

CHRONIC/OTHER EFFECTS

For the product itself:

Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects.

Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

METHYL ETHYL KETONE (MEK): Simultaneous exposure to Methyl Ethyl Ketone (MEK) or Methyl Isobutyl Ketone (MIBK) and n-Hexane can potentiate the risk of adverse effects from n-Hexane on the peripheral nervous system.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC 3 = IARC 1 5 = IARC 2B
2 = NTP SUS 4 = IARC 2A 6 = OSHA CARC

12. Ecological information

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The information given is based on data available for the material, the components of the material, and similar materials.

Eco Toxicity	Material -- Not expected to be harmful to aquatic organisms.
MOBILITY	Material -- Expected to remain in water or migrate through soil.
Biodegradation	Material -- Expected to be readily biodegradable.
Hydrolysis	Material -- Transformation due to hydrolysis not expected to be significant.
Photolysis	Material -- Expected to degrade at a moderate rate in water when exposed to sunlight.
Atmospheric Oxidation	Material -- Transformation due to atmospheric oxidation not expected to be significant.
OTHER ECOLOGICAL INFORMATION VOC (EPA Method 24)	6.718 lbs/gal

13. Disposal considerations

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Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS	Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by superv
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