REVISED MAY/2015

SAFETY DATA SHEETS

1. CHEMICAL PRODUCT

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Product Name: **DE-BOND Product #7127**

Technical Name: **nitromethane/methyl ethyl ketone mixture**

2. HAZARDS IDENTIFICATION

Emergency Overview:

OSHA Hazards

Flammable liquid. Carcinogen, Target organ effect: Irritant
Target Organs: liver, kidney, central nervous system.

GHS Classification:

Flammable Liquid (category 3)
Acute Toxicity Oral (category 4)
Skin irritation (category 3)
Eye irritation (category 2A)
Specific target organ toxicity-single exposure (category 3)

GHS Label elements, including precautionary statements

HAZARD PICTOGRAMS:  GHS02 Flame  GHS07 Irritant

Signal Word: Danger

Hazard Statements

H225 Highly flammable liquid and vapor
H302 Harmful if swallowed.
H316 Causes mild skin irritation
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness

Precautionary Statements

P210 Keep away from heat, sparks, open flame, hot surfaces. NO SMOKING.
P261 Avoid breathing dust, fume, gas, mist, vapor, spray.
P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification:

Health Hazard 2` Flammability 3 Physical Hazard 2

NFPA Rating:

Health Hazard 2 Flammability 3 Reactivity 2

Potential Health Effects:

INHALATION: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause dizziness and drowsiness.
SKIN: May be harmful if absorbed through the skin. Causes skin irritation.
EYES: Causes eye irritation.
INGESTION: May be harmful if swallowed.

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3. COMPOSITION AND INFORMATION ON HARMFUL INGREDIENTS

Ingredients	Cas No.	OSHA PEL	ACGIH TWA	ACGIH STEL	%Composition
Nitromethane **Methyl Ethyl Ketone**	**75-52-5** **78-93-3**	**100ppm** **200ppm**	**20 ppm** **200ppm**	**N.E.** **300ppm**	**60-75** **25-40**

4. FIRST AID MEASURES

General Advice: **Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.**

Eye contact: **Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get immediate medical attention.**

Skin contact: **Flush skin with plenty of water while removing contaminated clothing and shoes. If irritation persists, get medical attention.**

Inhalation: **Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.**

Ingestion: **If swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.**

NOTE TO PHYSICIANS: Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g., gastric lavage after endotracheal intubation).

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water fog, alcohol resistance foam, dry chemical or CO2.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.
Fire / Explosion Hazards: Extremely Flammable. Vapors are heavier than air.
Hazardous Thermal Decomposition Products: Carbon dioxide, carbon monoxide, organics.
Further Information: Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

EXTREMELY FLAMMABLE LIQUID. Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protection recommendations found in section 8. Shut off source of leak if safe to do so. Use non-sparking tools and equipment. Contain spill, place into drums for proper disposal. Soak up residue with non-flammable absorbent material. DO NOT use sawdust. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. Use water spray to control vapor.

7. HANDLING AND STORAGE

Storage: Extremely Flammable. Store in a cool, well-ventilated area away from all sources of ignition and out of direct sunlight. Keep containers tightly closed. Bond and ground transfer containers and equipment.
Handling: Avoid contact with eyes, skin, and clothing. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. USE EXPLOSION PROOF TOOLS AND EQUIPMENT.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Components with workplace control parameters:

Component	CAS #	Value	Control Parameters	Basis
Nitromethane	75-52-5	TWA	20 ppm	USA/ACGIH TLV
		TWA	100 ppm	USA/OSHA 1910.1000
		TWA	100 ppm	USA/OSHA 1910.1000
		(Limits for air contaminants, Z 1)		
Remarks: Upper respiratory tract irritation. thyroid effects, lung damage, confirmed animal carcinogen with unknown relevance to humans.				
Methyl Ethyl Ketone	78-93-3	TWA	200 ppm	USA/ACGIH TLV
		STEL	300 ppm	"
		TWA	200 PPM	USA/OSHA 1910.1000
		STEL	300 ppm	"
		TWA	200 ppm	USA
		(NIOSH recommended exposure limits)		
		ST	300 ppm	USA
		(NIOSH recommended exposure limits)		

Engineering controls: Engineering controls are imperative when using this product to avoid overexposure.

Do not use in closed or confined spaces.

Respiratory protection:

If exposure limits are exceded, wear NIOSH respirator.

Eye/face protection: Wear safety glasses while handling this product.

Skin protection: Prevent contact. Wear chemical-resistant gloves.

Other protective equipment: Use adequate ventilation. Eye-wash station, safety shower.

General hygiene considerations: Wash with soap and water before meal times and at the end of each work shift.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point: 133 degrees F
Specific gravity: 0.80@20°C
Freezing point: <-139°F % Volatile: 100
Melting point: N.A.
Evaporation rate:<=0.1
Vapor pressure: 180@20°C VOC (WT%): 0
Solubility in water: Negligible VOC (Lbs/Gal): 0
Flash Point: <0 degrees C
Flammability/Explosion Limits:
LEL: 1.5%(V)
UEL: 10.1%(V)
Auto ignition temperature: 869 degrees F
V.O.C. Content: <20g/L estimated (California SCAQMD Method 316B)

10. REACTIVITY AND STABILIITY

Stability: Stable.

Hazardous Polymerization: Will not occur.

Incompatibility: Acids, alkalies, oxidizers.

Conditions to Avoid: Avoid contact with heat, sparks, electric arcs, and open flames. Reacts violently with phosphorous oxychloride. Vapors may form explosive mixture with air..

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

NITROMETHANE

Acute Toxicity:

Oral LD 50: rat-940mg/kg

Inhalation: No data available

Dermal: No data available

Other information on acute toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

Carcinogenicity-rat-inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Skin and appendages, tumors.

Carcinogenicity-mouse-inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Sense organs and special senses (nose, eye, and taste):

Eye: tumors. Liver: tumors.

This product is or contains a component that has been reported to be possibly carcinogenic based on IARC, ACGIH, NTP, or EPA classification.

METHYL ETHYL KETONE

Acute Toxicity:

Oral LD50: rat-2,737 mg/kg

Inhalation LC50: mouse-32,000 mg/m^3

LC50: mammal-38,000 mg/mg^3

Dermal LD50: rabbit-6,480 mg/kg

Other information on acute toxicity: no data available

Skin corrosion/irritation: Skin rabbit- 24 h

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogency:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels great than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Development of cataracts has been reported in laboratory animals after prolonged or repeated exposure to acetone. In animal studies, repeated oral dosing of large amounts of acetone was reported to cause adverse effects in the hematological system, liver, kidney, and testis. In animals, acetone administration can potentiate the toxicity of a variety of chemical toxicants, which is believed to be secondary to induction of liver enzymes. In pregnant animals exposed to high concentrations of acetone, there were no birth defects, but some evidence of embryo fetal toxicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA Classification.

IARC: 2B-Group 2B: Possibly carcinogenic to humans (nitromethane)

NTP: Reasonably anticipated to be a human carcinogen (nitromethane)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity-single exposure (Globally Harmonized System): may cause drowsiness or dizziness.

Specific target organ toxicity-repeated exposure (Globally Harmonized System): no data available.

Aspiration Hazard: no data available.

POTENTIAL HEALTH EFFECTS:

INHALATION: May be harmful if inhaled. May causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.

INGESTION: May be harmful if swallowed.

SKIN: May be harmful if absorbed through skin. Causes skin irritation.

EYES: Causes eye irritation.

Signs and symptoms of exposure: Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

Additional information: RTECS: PA9800000 Nitromethane

RTECS: EL6475000 Methyl Ethyl Ketone

12. ECOLOGICAL INFORMATION

NITROMETHANE
Toxicity:
Toxicity to fish: LC50-Danio rerio (qebra fish)-460mg/l-48h
Toxicity to daphnia and other aquatic invertebrates: EC50-Daphina magna (water fleas)-450 mg/l-24 h.
Toxicity to algae: IC50-desmodesmus subspicatus (green algae)-36 mg/l-72 h.

METHYL ETHYL KETONE
Toxicity:
Toxicity to fish: mortality NOEC-cyprinodon variegates (sheepshead minnow)-400 mg/l-96 h.
LC50-pimephales promelas (fathead minnow)-3,130-3,320 mg/l-96 h.
Toxicity to daphnia and other aquatic invertebrates: LC50-daphnia magna (water flea) 520 mg/l-48 h.
EC50-daphnia magna (water flea)->520 mg/l-48 h.

The following information applies to acetone, nitromethane, and methyl ethyl ketone:
Persistence and degradability: no data available

Bio-accumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

13. DISPOSAL INFORMATION

Disposal method: Dispose of in a permitted hazardous waste management facility following all local, state, and federal regulations.

14. TRANSPORTATION INFORMATION

DOT
UN Number: UN 1993
Proper shipping name: Flammable Liquid N.O.S. (Nitromethane/methyl ethyl ketone mixture)
Hazard Class: 3
Packing Group: II
Reportable quantity: 5,000 lbs
Marine Pollutant: No
Poison Inhalation Hazard: No

IATA
UN Number: UN 1993
Proper shipping name: Flammable Liquid N.O.S. (Nitromethane/Methyl ethyl ketone mixture)
Hazard Class: 3
Packaging Group: II

IMDG
UN Number: UN 1993
Proper shipping name: Flammable Liquid N.O.S. (Nitromethane/Methyl ethyl ketone mixture)
Hazard Class: 3
Packing Group: II EMS-N0: F-E, S-D
Marine pollutant: NO

15. REGULATORY INFORMATION

OSHA HAZARD(S):
Flammable liquid, carcinogen, target organ effect, harmful by igestion Irritant.

SARA 302 COMPONENTS
SARA 302: No chemicals In this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 COMPONENTS
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 HAZARDS
Fire Hazard, Acute Health Hazard, Chronic Health Hazard.

RIGHT TO KNOW
Massachusetts, Pennsylvania, New Jersey

NITROMETHANE	**CAS Number: 75-52-5**	**Revision Date: 1993-04-24**
METHYL ETHYL KEYTONE	**CAS Number: 78-93-3**	**Revision Date: 2007-03-01**

CALIFORNIA PROP. 65 COMPONENTS

WARNING! This product contains a chemical (nitromethane) known to the State of California to cause cancer.	**CAS Number: 75-52-5**	**Revision Date: 2007-09-28**

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16. OTHER INFORMATION

HMIS	**HEALTH 2**	**FLAMMABILITY 3**	**REACTIVITY 2**
NFPA	**HEALTH 2**	**FIRE HAZARD 3**	**REACTIVITY 2**

NON-WARRANTY: Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. The distributor shall not be liable for any injury, loss, or damage in the use of it's chemical products since the conditions of use are beyond our control. In every case we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Because of changing reporting requirements and other variables it is impossible to guarantee the accuracy of the information contained in this document. It is the responsibility of the user to determine proper personal protection based on the actual condition of use and to comply with all Federal, State, and Local laws and regulations.