

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

IOSSO SAFE-T-SOLVE
IOSSO FIREARMS PARTS CLEANER/DEGREASER

Section I

Manufacturer's name

Emergency Telephone Number 847-437-8400

IOSSO PRODUCTS

Telephone Number for Information 847-437-8478

1485 LIVELY BLVD

Date Prepared January 1, 2014

ELK GROVE, IL 60007

Signature of Preparer (optional)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))

OSHA PEL

ACGIH TLV

Other Limits
Recommended

% (optional)

SODIUM MIXED C8 AMPHOCARBOXYLATES

LESS THAN .25%

NONYLPHENOL ETHOXYLATE

10 TO 20%

USDA CERTIFIED BIOBASED PRODUCT 61%

HMS Rating:

Health 0

Reactivity 0

Flammability 1

VOC Content: 0.798 lb/gal

All components are listed on the TSCA Inventory.

Section III—Physical/Chemical Characteristics

Boiling Point

212 DEGREES F

Specific Gravity (H₂O = 1)

.99

Vapor Pressure (mm Hg)

< 5

Melting Point

NA

Vapor Density (AIR = 1)

< 1

Evaporation Rate (Butyl Acetate = 1)

< 1

Solubility in Water

MISCIBLE (79% SOLUBLE)

Appearance and Odor

CLEAR TRANSPARENT EMULSION WITH CHARACTERISTIC ODOR.

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used) At 95 deg. F, the sample vapors extinguished the test flame. The test was discontinued at 210 deg. F. No flash was observed.

Flammable Limits

LEL NA

UEL NA

Extinguishing Media

SMALL FIRES: DRY CHEMICAL, CARBON DIOXIDE. LARGE FIRES: ALCOHOL FOAM, UNIVERSAL FOAM,

WATER SPRAY. NOT RECOMMENDED: WATER JET (FROTHING POSSIBLE)

Special Fire Fighting Procedures WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE SHIELD. COMBUSTION/DECOMPOSITION PRODUCTS MAY INCLUDE HYDROGEN FLUORIDE, AMINES AND OTHER NITROGEN COMPOUNDS, AS WELL AS CARBON MONOXIDE AND CARBON DIOXIDE.

Unusual Fire and Explosion Hazards

PRODUCT WILL BURN UNDER FIRE CONDITIONS. CLOSED CONTAINERS MAY EXPLODE, DUE TO PRESSURE BUILD-UP, WHEN EXPOSED TO EXTREME HEAT. IMPROPERLY HANDLING OF PRODUCT SOAKED RAGS CAN CAUSE SPONTANEOUS COMBUSTION. USE FACTORY MUTUAL APPROVED OR UL LISTED CONTAINERS FOR USED RAGS.

IOSSO SAFE-T-SOLVE

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	XX	

Incompatibility (*Materials to Avoid*) **STRONG ACIDS AND OXIDIZING AGENTS**

Hazardous Decomposition or Byproducts **NONE UNDER NORMAL CONDITIONS. THERMAL DECOMPOSITION DUE TO FIRE WILL RESULT IN THE GENERATION OF HYDROGEN FLUORIDE, OXIDES OF CARBON, OXIDES OF NITROGEN, IRRITATING KETONES AND ALDEHYDES.**

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	XX	

Section VI—Health Hazard Data

Route(s) of Entry Inhalation? **XX** Skin? **XX** Ingestion? **XX**

Health Hazards (*Acute and Chronic*) **EYES: PROLONGED EXPOSURE WILL CAUSE REDNESS, IRRITATION. SKIN: PRLONGED EXPOSURE MAY CAUSE REDNESS, IRRITATION. INHALATION: MISTS CAN CAUSE HEADACHE, DIZZINESS, NAUSEA, AND UPPER RESPIRATORY TRACK IRRITATION. INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA.**

Carcinogenicity NTP? **NO** IARC Monographs? **NO** OSHA Regulated? **NO**

Signs and Symptoms of Exposure

Emergency and First Aid Procedures **INHALATION: IF RESPIRATORY IRRITATION OR DISTRESS OCCURS, REMOVE VICTIM TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION OR DISTRESS CONTINUES. EYES: HOLD EYELIDS OPEN AND FLUSH WITH A STEADY GENTLE STREAM OF WATER FOR AT LEAST 15 MINS. DO NOT RUB EYES. SEEK MEDICAL ATTENTION. SKIN: IMMEDIATLEY WASH WITH PLENTY OF SOAP AND WATER FOR AT LEAST 5 MINS. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. CLEAN CONTAMINATED CLOTHING AND SHOES BEFORE REUSE. INGESTION: IF VICTIM IS CONSCIOUS AND ALERT, GIVE 1-2 GLASSES OF WATER TO DRINK. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION. DO NOT LEAVE VICTIM UNATTENDED.**

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled **ELIMINATE SOURCE OF IGNITION. CONTAIN SPILL/LEAK AND ABSORB WITH EARTH, SAND, OR SIMILAR INERT MATERIAL AND DISPOSE OF AS SOILD WASTE ACCORDING TO LOCAL, FEDERAL, AND STATE REGULATIONS.**

Precautions to be Taken in Handling and Storage **KEEP CONTAINER CLOSED. HANDLE ALL OPEN CONTAINERS WITH CARE. STORE IN COOL, DRY, WELL-VENTILATED LOCATION.**

Waste Disposal Method **DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS**

Other Precautions **DO NOT GET INTO EYES, ON SKIN OR ON CLOTHING. WASH SKIN THOROUGHLY AFTER HANDING.**

Section VII—Control Measures

Respiratory Protection (*Specify Type*) **NIOSH/MSHA APPROVED RESPIRATOR IS RECOMMENDED, BUT IS NOT REQUIRED.**

Ventilation	Local Exhaust	YES	Special	NA
	Mechanical (<i>General</i>)	YES	Other	NA
Protective Gloves	YES	Eye Protection	YES	

Other Protective Clothing or Equipment **NA**

Work/Hygienic Practices

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