## SAFETY DATA SHEET.

Issuing date 27-May-2015 Revision Date 27-May-2015 Version 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name Restore

Recommended use of the chemical

and restrictions on use

**Product code** 7615, 9930, 8032

Product Type Extremely flammable aerosol

Synonyms None

Supplier's details

Recommended Use No information available. Uses advised against No information available

Manufactured For: Tifco Industries PO Box 40277 Houston, TX 77240

Emergency telephone number

Chemical Emergency Phone CHEM-TEL, INC. 1-800-255-3924

Number

**Company Phone** 281-571-6000

Number

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## 2. HAZARDS IDENTIFICATION

#### Classification

Aspiration toxicity	Category 1
Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

## GHS Label elements, including precautionary statements

**Emergency Overview** 

#### **DANGER**

#### **Hazard Statements**

May be fatal if swallowed and enters airways Extremely flammable aerosol

Contains gas under pressure; may explode if heated



Appearance opaque Physical state Aerosol Odor Mild

#### **Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces. — No smoking Do not spray on an open flame or other ignition source Pressurized container: Do not pierce or burn, even after use

#### **Precautionary Statements - Response**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting

## **Precautionary Statements - Storage**

Store locked up

Protect from sunlight. Store in a well-ventilated place

Do not expose to temperatures exceeding 122°F (50°C)

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None

#### Other information

- · Toxic to aquatic life with long lasting effects
- 8.18E-06% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
HYDROTREATED LIGHT DISTILLATES	64742-47-8	20-30
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	1-10
WHITE MINERAL OIL	8042-47-5	1-10
SODIUM NITRITE	7632-00-0	0.1-1

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. If symptoms persist, call a physician.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen

may be necessary. If breathing has stopped, contact emergency medical services

immediately.

Ingestion Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Drink plenty of water. Call a physician or Poison Control Center immediately.

Most important symptoms/effects, acute and delayed

Main Symptoms Causes skin irritation. Causes eye irritation. May cause respiratory irritation.May be harmful

if swallowed.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

#### **5. FIRE-FIGHTING MEASURES**

## Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Decomposition by contact with water may generate vapors which can be ignited by heat or

open flame.

#### Specific hazards arising from the chemical

No information available.

**Explosion Data** 

Sensitivity to Mechanical Impact none.
Sensitivity to Static Discharge none.

**Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Absorb with sand, clay, or other suitable material. Hard surfaces may be mopped with

water. Remove all sources of ignition. Avoid contact with the skin and the eyes. Evacuate personnel to be safe areas. Keep people away from and upwind of spill/leak. Contents under pressure. Do not puncture or incinerate cands. Wear protective gloves/clothing and

eye/face protection.

**Environmental precautions** 

Environmental precautions Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in

low areas. Prevent further leakage or spillage if safe to do so. Do not allow material to

contaminate ground water system. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Methods for Containment Absorb or cover with dry earth, sand or other non-combustible material and transfer to

containers. Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Take

precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not

puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top

of can.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled

containers. Keep out of the reach of children. Store locked up. Keep containers tightly

closed in a dry, cool and well-ventilated place.

**Incompatible products** Strong acids, alkalis, or oxidizing agents.

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Aerosol Level

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
HYDROTREATED LIGHT DISTILLATES 64742-47-8			-
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	74-98-6: TWA: 1000 ppm 106-97-8: STEL: 1000 ppm 75-28-5: STEL: 1000 ppm	74-98-6:TWA: 1000 ppm TWA: 1800 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m³ 106-97-8: (vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m³	74-98-6:IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m³ 106-97-8:TWA: 800 ppm TWA: 1900 mg/m³ 75-28-5:TWA: 800 ppm TWA: 1900 mg/m³

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

**Exposure controls** 

Engineering Measures Showers

Eyewash stations Ventilation systems.

#### Restore-7615, 9930, 8032

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and body protection** Chemical resistant apron. Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Not applicable

provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and chemical properties

Physical state Aerosol

AppearanceOdorMild

Color hazy Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Methods</u>

pH No information available
Melting/freezing point No information available
Boiling point/boiling range No information available

Flash Point -91 °C / -132 °F Based on propellant

Evaporation rate No information available Flammability (solid, gas) No information available

Flammability Limits in Air

upper flammability limitNo information availablelower flammability limitNo information availableVapor pressureNo information availableVapor densityNo information available

Specific Gravity 883

Water solubility Practically insoluble
Partition coefficient: n-octanol/waterNo information available
Autoignition temperature No information available

Decomposition temperature
Viscosity
No information available

**Other information** 

VOC Content(%) 9.6

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### **Conditions to Avoid**

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

Strong acids, alkalis, or oxidizing agents.

#### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

#### **Product Information**

**Inhalation** Avoid breathing vapors or mists.

**Eye contact** Avoid contact with eyes.

**Skin contact** Avoid contact with skin.

Ingestion May be harmful or fatal if swallowed. Aspiration into the lungs during swallowing may

cause serious lung damage which may be fatal.

**Component Information** 

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
HYDROTREATED LIGHT DISTILLATES 64742-47-8	> 5000 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	> 5.2 mg/L (Rat)4 h
WHITE MINERAL OIL 8042-47-5	> 5000 mg/kg (Rat)	-	-
SODIUM NITRITE 7632-00-0	= 85 mg/kg (Rat)	-	= 5.5 mg/L (Rat) 4 h

#### Information on toxicological effects

Symptoms May cause mild irritation. Harmful if swallowed. May be fatal if swallowed and enters

airways.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization None known.
Germ Cell Mutagenicity None known.

Carcinogenicity The table below indicates whether each agency has evaluated a listed ingredient as a

carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
SODIUM NITRITE	-	Group 2A	-	-
7632-00-0				

IARC: (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

**Reproductive toxicity**This product does not contain any known or suspected reproductive hazards.

Specific target organ systemic toxicity (single exposure)

None under normal use conditions.

toxicity (single exposure) Specific target organ systemic

None under normal use conditions.

toxicity (repeated exposure)
Neurological effects

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

fatal.

**Aspiration hazard** May be fatal if swallowed and enters airways.

#### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 8.18E-06% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

 ATEmix (oral)
 8955 mg/kg

 ATEmix (dermal)
 8859 mg/kg

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
HYDROTREATED LIGHT DISTILLATES 64742-47-8	-	2.2 mg/L LC50 Lepomis macrochirus 96h static 2.4 mg/L LC50 Oncorhynchus mykiss 96h static 45 mg/L LC50 Pimephales promelas 96h flow-through	-	-
WHITE MINERAL OIL 8042-47-5	-	10000 mg/L LC50 Lepomis macrochirus 96h	-	-
SODIUM NITRITE 7632-00-0	-	0.092 - 0.13 mg/L LC50 Oncorhynchus mykiss 96h flow-through 0.4 - 0.6 mg/L LC50 Oncorhynchus mykiss 96h semi-static 0.65 - 1 mg/L LC50 Oncorhynchus mykiss 96h static 0.19 mg/L LC50 Oncorhynchus mykiss 96h flow-through 2.3 mg/L LC50 Pimephales promelas 96h flow-through 20 mg/L LC50 Pimephales promelas		-

# <u>Persistence and degradability</u> No information available.

#### **Bioaccumulation**

No information available.

Chemical Name	log Pow
PROPANE/ISOBUTANE/N-BUTANE	2.8
68476-86-8	
WHITE MINERAL OIL	6
8042-47-5	
SODIUM NITRITE	-3.7
7632-00-0	

Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR **Waste Disposal Methods** 

261).

Do not re-use empty containers. Contaminated packaging

## 14. TRANSPORT INFORMATION

CONSUMER COMMODITY ORM-D **DOT Ground** 

LIMITED QUANTITY

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IATA UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

IMDG UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

## 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
HYDROTREATED LIGHT DISTILLATES	Х	Х	X	Х	Х	Х	X	Х
PROPANE/ISOBUTA NE/N-BUTANE	Х	Х	X	Not listed	Х	Х	Х	Х
WHITE MINERAL OIL	Х	Х	Х	Х	Х	Х	Х	Х
SODIUM NITRITE	Х	Х	Х	Х	Х	Х	Х	Х

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %*	SARA 313 - Threshold Values %
SODIUM NITRITE - 7632-00-0	7632-00-0	0.1-1	1.0

## SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard Yes
Reactive Hazard no

### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
SODIUM NITRITE 7632-00-0	100 lb			Х

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
SODIUM NITRITE 7632-00-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

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## **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any known Proposition 65 chemicals.

## **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
SODIUM NITRITE	X	X	X
7632-00-0			

EPA Pesticide Registration Number Not applicable

#### Canada

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.

## **16. OTHER INFORMATION**

NFPA Health Hazard 2 Flammability 4 Instability 0 Physical and chemical

hazards -

HMIS Health Hazard 2 Flammability 4 Physical Hazard 1 Personal protection B

Prepared ByRegulatory AffairsIssuing date27-May-2015Revision Date27-May-2015

**Revision Note** 

No information available

## <u>Disclaimer</u>

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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