SAFETY DATA SHEET (SDS)

1 - IDENTIFICATION

RUSTBEAT 2

Chemical family: Petroleum Oxidate

Recommended use: Rust Preventive

Tower Metalworking Fluids
4300 South Tripp Ave.
Chicago, IL 60632

Information telephone #: (773) 927-6161 (7:30 AM to 4 PM, CST, Monday to Friday)
24 Hr. emergency telephone #: CHEMTREC: (800) 424-9300

2 - HAZARDS IDENTIFICATION

Classification of chemical:
This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012)

Flammable liquids:	Category 3
Aspiration hazard:	Category 1
Skin corrosion/irritation:	Category 2
Serious eye damage/eye irritation:	Category 2B
Acute toxicity, inhalation:	Category 4
Specific target organ toxicity: (single exposure; Narcotic effects)	Category 3

Signal word: DANGER

Hazard Pictograms:

Hazard statements:

H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315+ H320	Causes skin and eye irritation.

H332 Harmful if inhaled.
H336 May cause drowsiness and dizziness.

Precautionary statements:

Prevention

P210	Keep away from sparks, open flames, hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground container and receiving equipment.
P241	Use explosion-proof electrical and equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapors/mist.
P264	Wash contact area thoroughly after handling.
P271	Use only outdoors or in well-ventilated areas.
P280	Wear chemical resistant gloves, goggles and face shield.

Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER / doctor.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER / doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P370+P378	In case of fire: Use water fog, foam, dry chemical or carbon dioxide to extinguish.

Storage

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Disposal

P501	Dispose of contents/ containers in accordance with federal, state and local regulations.

3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration
Hydrotreated light distillate (Petroleum)	64742-47-8	10 – 35 %
Stoddard solvent	8052-41-3	10 – 35 %

4 - FIRST-AID MEASURES

Description of first aid measures:

Inhalation: If overexposure occurs, remove to fresh air. If breathing has stopped, apply artificial respiration. Seek medical attention immediately.

Ingestion: Do not induce vomiting. Get medical attention.

Skin: Wash with warm water and mild soap. Remove contaminated clothing.

Eye: Flush with water for 20 minutes, hold eyelids open during irrigation. Get immediate medical attention.

Symptoms and effects, both acute and delayed:

Acute: Drying and defatting of skin. Eye irritation. Excessive inhalation may cause anesthesia, dizziness, nausea, upper respiratory tract irritation.

Chronic: Prolonged or repeated skin contact may tend to remove natural oils, resulting in development of dermatitis.

5 - FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable: Use alcohol resistant foam, carbon dioxide (CO_2), or dry chemical to extinguish flames. Water spray can be used to extinguish a fire if swept across the base of the flame.

Unsuitable: Do not use straight streams of water, as this will spread the fire..

Specific hazards and combustion products: Typical hydrocarbon combustion products upon ignition. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.

Special protective equipment and precautions for fire-fighters: 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.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: All persons dealing with the spill should wear appropriate personal protective equipment. Keep others away from spill. Restrict access to area until the spill has been cleaned up. Extinguish all sources of ignition. Exposure to the spilled material may be irritating or harmful.

Methods and materials for containment and cleaning up: Extinguish all sources of ignition. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. If spill enters sewer, notify proper authorities.

7 - HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin, eyes and clothing. Avoid breathing the material. Use only in a well ventilated area. Use proper bonding and/or grounding procedures. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause and electrical spark (ignition source).

Conditions for safe storage: Keep containers closed when not in use. Store in cool conditions and away from sources of ignition. Use with adequate ventilation.

Incompatible materials: Strong oxidizing agents.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limits:

Source	Limit/ Standard		Note
Hydrotreated light distillate	ACGIH TLV 212 ppm (8 hrs)		---
Stoddard solvent	ACGIH TLV 100 ppm TWA; 525 mg/m^3 TWA	OSHA PEL 500 PPM TWA; 2900 mg/m^3 TWA	---

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 process enclosures. Use explosion-proof ventilation equipment.

Individual protection measures and personal protective equipment: Splash goggles, neoprene or nitrile chemical resistant gloves, chemical resistant apron if exposure is likely to be prolonged or repeated. 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. Types of respirators to be considered for this material include a half-face filter respirator. For high airborne concentrations, use a NIOSH/MSHA approved air-supplied respirator.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark Amber Liquid
Odor:	Mild Solvent
Odor threshold:	Data currently unavailable
Product pH:	N/A
Freezing point:	Data currently unavailable
Boiling point:	Typical 300-310ºF
Flash point:	>105ºF (40.6ºC) COC
Evaporation rate:	< 0.1 (BA=1)
Flammability:	Data currently unavailable
Upper/lower flammability limits:	Data currently unavailable
Vapor pressure:	2.0 mm Hg at 20ºC
Vapor density:	>1 (Air = 1)
Relative density:	0.86 (Water = 1)
Solubility:	Negligible solubility in water.
Partition coefficient (n-octanol/water):	Data currently unavailable
Auto-ignition temperature:	Data currently unavailable
Decomposition temperature:	Data currently unavailable
Viscosity:	Data currently unavailable
Percent volatile by volume:	40 – 50 (VOC = 385 gm/L)

10 - STABILITY AND REACTIVITY

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Material does not decompose at ambient temperatures. Typical hydrocarbon combustion products upon ignition.

11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation:	Yes
Ingestion:	No
Skin:	Yes
Eye:	Yes

Potential symptoms of exposure:

Inhalation:	May cause respiratory tract irritation.
Ingestion:	Irritating to the mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Substance is harmful if swallowed. Large exposure may be fatal.
Skin:	Can cause moderate skin irritation. Not likely to cause permanent damage.
Eye:	can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Toxicological data:
Ingestion Toxicity: LD50 > 2,000 mg/kg, Rat.

NTP, IARC or OSHA carcinogen: None of the constituents of this product have been identified as possible or proven carcinogens by NTP, IARC, or OSHA.

12 - ECOLOGICAL INFORMATION

Ecotoxicity: No ecological information available.

Persistence and degradability: No data available.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Other adverse effects: None known.

13 - DISPOSAL CONSIDERATIONS

Waste disposal method: Dispose of in accordance with federal, state and local regulations.

14 - TRANSPORT INFORMATION

Identification number: UN 1268
Proper shipping name: Petroleum distillates, n.o.s. (Naphtha Solvent)
Class / Division: 3
Packing group: III

15 - REGULATORY INFORMATION

Sara III (Superfund Amendment and Re-authorization Act of 1986) 40 CFR Part 372 and 40 CFR Part 355

Sections 302, 304 and 40 CFR Part 355 – Extremely Hazardous Substances:

Component	%	RQ (lbs.)	TPQ (lbs.)	CAS#
NONE	–	–	–	–

Sections 311, 312 and 40 CFR Part 355 – Hazard Categories:

ACCUTE(IMMEDIATE HEALTH HAZARD):	YES	**FIRE HAZARD:**	YES
CHRONIC (DELATED HEALTH HAZARD):	NO	**REACTIVE HAZARD:**	NO
SUDDEN PRESSURE RELEASE:	NO		

Sections 313 and 40 CFR Part 372 – Toxic Chemicals:

Component	%	CAS#
NONE	–	–

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

Section 102 and 40 CFR Part 302 – Hazardous Substances:

Component	%	RQ (lbs.)	CAS#
NONE	–	–	–

CLEAN WATER ACT
Under section 311 (b) (4) of this act, contamination of surface waters by petroleum products must be reported immediately to the National Response Center. SECTION 311 (b) (4) DOES APPLY TO RUSTBEAT 2

California Proposition 65: None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All components of this formula are listed in the TSCA inventory.

16 - OTHER INFORMATION

Preparation Date: June 10, 2015
Revision Date: June 12, 2017

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