SAFETY DATA SHEET (SDS)

1 - IDENTIFICATION

RUSTBEAT 699

Chemical family: Hydrocarbon

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)
Eye Irrit. 2, H319

Signal word: WARNING

Hazard Pictograms:

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P264	Wash contact area thoroughly after handling.
P280	Wear chemical resistant gloves, goggles and face shield.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration	TLV/TWA
Barium petroleum sulfonate	61790-48-5	3.0 – 8.0%	0.5 mg/M^3 (Barium oil mist)

4 - FIRST-AID MEASURES

Description of first aid measures:

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

Ingestion: Do not induce vomiting unless directed by a physician. Get medical attention.

Skin: Wash with warm water and mild soap. Remove contaminated clothing. Launder or dry-clean soiled clothing before reuse.

Eye: Remove contact lenses, if present and easy to do. Flush with plenty of water for 15 minutes or until irritation subsides. Hold eyelids open during flushing. Seek 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 foam, dry chemicals, carbon dioxide (CO_2), sand/earth or water fog to extinguish fire. Product may float and reignite on the surface of water.

Unsuitable: Straight streams of water.

Specific hazards and combustion products: Oxides of carbon upon combustion. Decomposition products may include CO, CO_2, NO_X, SO_X, CaO, BaO and other compounds not identified. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Treat as oil fire.

Special protective equipment and precautions for fire-fighters: Minimize breathing fumes. Use standard protective equipment and in enclosed spaces, including a positive-pressure NIOSH approved 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.

Methods and materials for containment and cleaning up: Extinguish all sources of ignition. Flush with water into retaining area and soak up in absorbent medium. Transfer to suitable containers. If spill enters sewer, notify proper authorities.

7 - HANDLING AND STORAGE

Precautions for safe handling: Wear proper personal protective equipment. Avoid contact with skin, eyes and clothing. Minimize breathing hot vapors. Use good engineering practices to establish good ventilation. Prevent small spills and leakage to avoid slip hazard. Do not eat or drink while handling the material. Wash thoroughly before meals and at end of work periods. Launder or dry-clean soiled clothing before reuse.

Conditions for safe storage: Keep containers closed when not in use. Store in cool conditions and away from sources of ignition. Empty containers may retain product residue; all precautions apply to empty containers.

Incompatible materials: Strong oxidizing agents.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limits:

Source	Form	Limit/ Standard		Note
Barium petroleum sulfonate	Vapor	ACGIH TLV (U.S.) - TWA	0.5 mg/m³	**Form: As barium compounds**

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.

Individual protection measures and personal protective equipment: Splash goggles, face shield, neoprene or nitrile chemical and oil 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. Use chemical resistant apron if needed to avoid prolonged or repeated skin contact.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber liquid.
Odor: Bland Petroleum
Odor threshold: Data currently unavailable
Product pH: N/A
Freezing point: Data currently unavailable
Boiling point: N/A
Flash point: >230ºF (110ºC)
Evaporation rate: <0.01 (BA=1)
Flammability: Data currently unavailable
Upper/lower flammability limits: LEL: 0.7% UEL: 7.0%
Vapor pressure: < 0.01 mm Hg @ 25ºC
Vapor density: >5 (Air = 1)
Relative density: 0.89 (Water = 1)
Solubility: Negligible solubility in water.
Partition coefficient (n-octanol/water): Information not available.
Auto-ignition temperature: Information not available.
Decomposition temperature: Information not available.

Viscosity: Typical 40 SUS @ 100ºF

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. Oxides of carbon upon combustion. Decomposition products may include CO, CO_2, NO_X, SO_X, CaO, BaO and other compounds not identified.

11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

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

Potential symptoms of exposure:

Inhalation: No information available.
Ingestion: Small amounts (tablespoonful) swallowed are not likely to cause injury. Larger amounts may be harmful.
Skin: Not expected to cause serious irritation.
Eye: Possible irritation.

Toxicological data:

Ingestion Toxicity: LD50 > 3,000 mg/kg, Rat.
Skin Toxicity: Not available.

Occupational Exposure Limit: (for oil mists)
PEL/TLV: 0.5 mg/M^3 (for oil mist containing barium compounds)

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: Data not available.

Persistence and degradability: Data not available.

Bioaccumulative potential: Data not available.

Mobility in soil: Data not 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

DOT Shipping: Not regulated by the U.S. Department of Transportation as a hazardous material.
DOT Hazard class: Not Regulated.
UN/NA Number: Not Regulated.

15 - REGULATORY INFORMATION

Sara III (Superfund Amendment and Reauthorization 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#
Barium Compounds	< 8.0%	61790-48-5

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 NOT APPLY TO RUSTBEAT 699

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: July 22, 2014

Revision Date: June 13, 2017