

SAFETY DATA SHEET

Section 1 - Identification

Product Name: RUST PREVENTIVE 420 Product Code: 15003-02

Company Information:

Twin Specialties Corp.
15 East Ridge Pike
Conshohocken, PA 19428

Phone: 610-834-7900
Fax: 610-834-7903
Emergency: 800-424-9300

Product Use: Rust preventive

Not recommended for: No restrictions known

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Section 2 - Hazard(s) Identification

This Safety Data Sheet conforms with the OSHA Hazard Communication Standard (29 CFR 1910.1200) as revised in 2012.

Classifications:

Flammable liquid	3	Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity < 20.5 mm ² /s at 40° C.

Signal Word: Danger

Hazard Symbols



Hazard Statements:

H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H336	May cause drowsiness or dizziness

Precautionary Statements:

P210	Keep away from heat, sparks, open flames, and hot surfaces - No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical, ventilating, lighting, and other equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing mists and vapors
P271	Use only outdoors or in a well-ventilated area
P280	Wear chemical/oil resistant gloves, and eye/face protection
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P331	Do NOT induce vomiting
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P370+P378	In case of fire: Use water fog, foam, dry chemical or carbon dioxide to extinguish

P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in accordance with governmental regulations

Hazards Not Otherwise Classified: None known

Section 3 - Composition / Information on Ingredients

Chemical Name	CAS Number	Percent
Naphtha (petroleum), hydrotreated heavy	64742-48-9	90.0 - 100.0%
Distillates (petroleum), hydrotreated heavy naphthenic(1)	64742-52-5	1.0 - 5.0%

(1) Composition comment: IP346 DMSO extract for base oil substances is < 3.0%

Section 4 - First Aid Measures

Inhalation: Using proper respiratory protection, immediately remove affected victim from exposure. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available. Keep victim at rest and obtain prompt medical attention.

Eye Contact: Remove contact lenses if present. Immediately flush eyes with water for at least 15 minutes. If irritation occurs, obtain medical assistance.

Skin Contact: Remove any contaminated clothing and thoroughly wash contact areas with soap and water. Launder clothing before reuse. If irritation develops, obtain medical assistance.

Ingestion: Do not induce vomiting. If vomiting occurs, have victim lean forward to reduce risk of aspiration. Obtain emergency medical attention.

Most important symptoms/effects, acute and delayed: Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Notes to Physician: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

Section 5 - Fire Fighting Measures

Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide to extinguish flames. Do not use straight streams of water.

Specific Hazards Arising from the Chemical: This product is combustible. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach ignition sources causing a flashback fire danger.

Hazardous Combustion Products: Smoke, fumes, carbon monoxide, carbon dioxide, sulfur oxides, and hydrocarbons.

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard equipment and in enclosed spaces, self-contained breathing apparatus. Use water spray to cool fire-exposed surfaces and to protect personnel.

Fire-Fighting Equipment: Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, and face mask.

Section 6 - Accidental Release Measures

Personal Precautions: Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing/equipment (Section 8). In case of spill, beware of slippery floors and

surfaces.

Environmental Precautions: Contain spills with sand, earth, or any suitable adsorbent material. Prevent spillage from entering soil, waterways, drains and sewers. Notify relevant authorities in accordance with all applicable regulations.

Small Spill: Eliminate all ignition sources. Stop leak if you can do so without risk. Absorb with earth, sand, or other non-combustible material and transfer to containers for later disposal.

Large Spills: Eliminate all ignition sources. Stop leak if you can do so without risk. Dike the spilled material where possible. Remove with vacuum trucks or by pumping into containers. Absorb with inert materials such as dry clay, sand, or diatomaceous earth. Dispose of waste in accordance with all applicable laws.

Section 7 - Handling and Storage

Precautions for Safe Handling: Keep away from heat, sparks, open flame, and other sources of ignition. Avoid prolonged or repeated contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electric spark (ignition source). Use proper bonding and/or ground procedures.

Conditions for Safe Storage: Store in a cool, well-ventilated place. Keep away from incompatible materials, open flames, and high temperatures. Do not store in open or unlabelled containers. Storage containers should be grounded and bonded.

Section 8 - Exposure Control / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Naphtha (petroleum), hydrotreated heavy 64742-48-9	TWA = 500 ppm	TWA = 100 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	PEL = 5 mg/m ³ (mist)	TWA = 5 mg/m ³ (mist) STEL = 10 mg/m ³ (mist)	

Engineering Controls: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal Protective Equipment

Eye/Face Protection: Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

Skin Protection: Chemical/oil resistant gloves are recommended. Neoprene, nitrile, polyvinyl alcohol(PVA), and Viton are recommended. Normal work clothing (long sleeved shirts and long pants) is recommended. Use a chemical-resistant apron to avoid contaminating regular clothing.

Respiratory Protection: 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.

General Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Section 9 - Physical and Chemical Properties

Appearance: Clear amber liquid	Odor: Mild
Vapor Pressure: <.1 mm Hg (20 C)	Odor threshold: Not available
Vapor Density: >2	pH: Not applicable
Density (lb/gal): 6.58	Specific Gravity (@60 F): 0.789

<p>Melting point: Not applicable</p> <p>Solubility in water: Insoluble</p> <p>Flash point (minimum): 104 F, 40 C</p> <p>Flammability: Not applicable</p> <p>Partition coefficient: No data available</p> <p>Decomposition temperature: Not available</p> <p>Grams VOC less water: 711</p>	<p>Freezing point: Not applicable</p> <p>Boiling point (initial): 340°C</p> <p>Evaporation rate: Not available</p> <p>Explosive Limits: 1% - 7%</p> <p>Autoignition temperature: Not available</p> <p>Viscosity @ 40C: <20 cst</p> <p>Pour Point: <20 F</p>
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Section 10 - Stability and Reactivity

Reactivity: Non-reactive under normal conditions.

Chemical Stability: Stable under normal temperature conditions.

Conditions to Avoid: Excessive heat and ignition sources.

Incompatible Materials: Strong oxidizing agents.

Possibility of Hazardous Reactions: Will not occur under normal conditions of use.

Hazardous Decomposition Products: Combustion may produce fumes, smoke, carbon monoxide, and other asphyxiants.

Section 11 - Toxicological Information

Routes / Signs / Symptoms of Exposure:

Ingestion: Not likely to occur. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea. Small amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and chemical pneumonitis, which can be fatal.

Inhalation: High vapor/aerosol concentrations may cause irritation to the eyes, nose, throat, and lungs, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Skin Contact: Prolonged or repeated contact may defat and dry the skin, leading to irritation and dermatitis. Symptoms may include redness, drying and cracking of the skin. Permanent damage is unlikely.

Eye Contact: Direct contact with the eyes may cause temporary irritation. Permanent damage is unlikely.

Information on Toxicological Effects:

All information below is based on component data. This product has not been tested as a whole.

Acute toxicity: Based on available data, this product is judged to have a low level of acute toxicity by oral, dermal or inhalation routes of exposure.

Chronic Toxicity: Prolonged or repeated skin and eye contact may produce irritation. Symptoms may include redness, drying, and cracking of the skin. However, based on available data, this product is judged to be neither a "corrosive", an "irritant", or a "sensitizer" by OSHA criteria.

Skin corrosion/irritation: Not classified. Prolonged contact may cause temporary irritation.

Serious eye damage/irritation: Not classified. Direct contact may cause minor irritation.

Respiratory sensitization: Not classified

Skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

- **repeated exposure:** Not expected to cause organ damage.

Aspiration hazard: May be fatal if swallowed and enters airways. Risk of chemical pneumonia.

Carcinogenicity: The components of this product are not classified as a human carcinogen according to ACGIH, IARC, NTP, and OSHA.

Section 12 - Ecological Information

Ecotoxicity: This product is not expected to be harmful to aquatic organisms.

Persistence/Degradability: This product is expected to be inherently biodegradable.

Bioaccumulation: No data available.

Soil Mobility: No data available.

Section 13 - Disposal Considerations

Waste Disposal: Reclaim material if possible. Waste must be handled in accordance with all federal, state and local regulations. This product may be subject to RCRA regulations (40 CFR 261) if uncontaminated. If "used", RCRA criteria (ignitability, reactivity, corrosivity, toxicity characteristics) must be determined. Do not flush product to a drain and/or a storm sewer. Contract to an authorized disposal service.

Contaminated Packaging: Empty containers may contain residue and can be dangerous. Empty containers should be completely drained and safely stored until appropriately reconditioned or disposed. They should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Section 14 - Transport Information

This material is classified for transport as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT-Drums	Not regulated as a hazardous material (containers < 119 gallons)			
IATA	Not regulated as a dangerous good			
IMDG	Not regulated as a dangerous good			

Section 15 - Regulatory Information

All components of this product are listed in the TSCA inventory.

SARA 311/312 Hazard Categories:

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

Fire Hazard: Yes

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

U. S. Federal Regulations: This material contains the following chemicals that are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4):

- None

U. S. State Regulations: This material contains the following chemicals that are listed under various state Right to Know hazardous substance lists:

64742-48-9 Naphtha (petroleum), hydrotreated heavy PA

Section 16 - Other Information

Hazardous Material Information System (HMIS)

National Fire Protection Association (NFPA)

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

HMIS & NFPA Hazard Rating

Legend

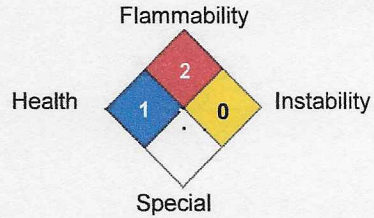
* = Chronic Health Hazard

0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH



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Reviewer Revision 1

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