

1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:..... SEPARATOR CLEANER

CHEMICAL NAME/

CLASS/SYNONYMS: Acid Cleaner, Rust Converter, Chemical Primer

PRODUCT NUMBER: SEPARATOR CLEANER

UN/NA NUMBER: 1760

CHEMICAL FAMILY: Compounds, Cleaning Liquid **CAS NUMBER:** Not applicable for mixtures.

FORMULA: Proprietary

COMPANY:......JMN Specialties, Inc.

1100 Victory Drive – Westwego, Louisiana USA 70094

Phone (504) 341-3749, Fax (504) 341-5868

www.jmnspecialties.com

EMERGENCY PHONE: CALL CHEMTEL: Toll Free US & Canada: (800) 255-3924, Outside

USA +01-813-248-0585.

DATE PREPARED: December 20, 2019

2 - HAZARDS IDENTIFICATION

GHS HAZARD CLASSIFICATION:

Physical Hazards

Health Hazards

Skin Corrosion/Irritation: Catagory 2 - Causes skin irritation **Serious Eye Damage/Irritation:** Catagory 1 - Causes severe eye damage

Aspiration Hazard:..... Catagory 1 - May be fatal if swallowed and enters airways

WARNING LABEL ITEMS INCLUDING PRECAUTIONARY STATEMENTS:

Pictograms:





SIGNAL WORD:...... DANGER!

GHS HAZARD AND PRECAUTIONARY STATEMENTS:

H312 H332: Harmful in contact with skin or if inhaled

P101+102+103: If medical advice is needed, have product container or label at hand. Keep out of the reach of children. Read label before use.

P202+270+280+281: Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.



P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P501: Dispose of contents/container: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

TOTAL VOC's:< 5%

3 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT*	CAS NUMBER
Phosphoric Acid	30 - 60	7664-38-2
Glycol Ether EB	5 - 10	111-76-2
Ethoxylated Alcohol Surfactant	1 - 5	34398-01-1

^{*}Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4 - FIRST-AID MEASURES

	Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen.
SWALLOWING (INGESTION):	Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately.
EYES:	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention. If liquid phosphoric acid or solutions containing phosphoric acid get into the eyes, flush eyes immediately with a directed stream of water for at least 30 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. GET MEDICAL ATTENTION IMMEDIATELY. Contact lenses should not be worn when working with this chemical.
	Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.
NOTE TO PHYSICIAN:	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.



5 - FIRE-FIGHTING MEASURES

GENERAL FIRE HAZARDS: Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage (29CFR 1910.156). In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Contact with water may generate heat. Isolate damage area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk. Fires involving small amounts of combustibles may be smothered with suitable dry chemicals. Use water on combustibles burning but avoid using water directly on acid as it results in evolution of heat and causes splattering.

AUTOIGNITION TEMP:

No Data Available

EXTINGUISHING MEDIA: Fires involving small amount of combustibles may be smothered with suitable dry chemical, soda ash, lime, sand or CO2. Use water on combustibles burning in vicinity of this material but use care as water applied directly to this acid result in evolution of heat and causes splattering.

SPECIAL FIRE FIGHTING

PROCEDURES: Phosphoric Acid at a high concentration can cause very serious damage upon contact. It burns the cornea and can lead to permanent blindness if

splashed onto eyes. Spilled product on ground may be slippery. Accordingly, safety precautions should be strictly observed when

handling or cleaning it when spilled as the result of a fire.

UNUSUAL FIRE AND

EXPLOSION HAZARDS:............. Containers may explode from internal pressure if confined to fire. Cool

with water spray.

6 - ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Wear appropriate personal protective equipment before approaching spill site. For small spills, dilute with water to sewer if allowed by local and state regulations. If unable to wash product with water, absorb with inert material (sand or other approved material) and dispose of in accordance with applicable regulations.

WASTE DISPOSAL: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

RCRA STATUS:...... If discarded in its purchased form, this product is considered a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40CFR261.20-24).



7 - HANDLING and STORAGE

STORAGE:

Keep in a tightly closed container, stored in a cool, dry, ventilated area below 44°C (110°F). Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Drum must not be washed out or used for other purposes.

HANDLING: Avoid contact with eyes, skin and clothing. Do not inhale vapors and fumes. Wash thoroughly after handling. Use only with adequate ventilation. Do not take internally. For industrial use only.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

HAZARDOUS INGREDIENT **PEL** TLV-TWA Phosphoric Acid 2 mg/m^3 1 mg/m^3 Glycol Ether EB 40 ppm 40 ppm Ethoxylated Alcohol Surfactant None Established None Established











EXPOSURE CONTROLS:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

RESPIRATORY PROTECTION: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information. Self-Contained Breathing Apparatus may be required for use in confined or enclosed spaces.



PROTECTIVE CLOTHING:

Eye/face protection: Wear chemical goggles; face shield (if splashing is possible). **Skin protection:** Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron or chemical suit and chemical resistant boots are recommended.

ADDITIONAL MEASURES: Avoid contact with the skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands before eating, drinking, or using restroom. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

9 - PHYSICAL / CHEMICAL PROPERITES

BOILING POINT:..... 225°F (107°C) FREEZING POINT:< 0°F (-17.5°C) FLASHPOINT:......Non-flammable

UPPER FLAME LIMIT (%): NA LOWER FLAME LIMIT (%): ... NA

VAPOR PRESSURE:..... Similar to water

VAPOR DENSITY (AIR=1):..... ND

SPECIFIC GRAVITY: 1.25 - 1.30

pH:< 1 SOLUBILITY IN WATER:..... 100%

VOLATILITY

INCLUDING WATER: 10.70 pounds per gallon MOLECULAR WEIGHT: No data available (G/MOLE)

EVAPORATION RATE:..... < 1 PHYSICAL STATE: Liquid

COLOR: Clear pale straw

ODOR:..... Acidic

10 - STABILITY and REACTIVITY

STABILITY: Stable

HAZARDOUS DECOMP.:..... Will not occur

INCOMPATIBILITY: Liberates explosive hydrogen gas when reacting with chlorides and stainless steel. Can react violently with sodium tetrahydroborate.

Exothermic reactions with aldehydes, amines, amides, alcohols and glycols, azo-compounds, carbamates, esters, caustics, phenols and cresols, ketones, organophosphates, epoxides, explosives, combustible materials, unsaturated halides, and organic peroxides. phosphoric acid forms flammable gases with sulfides, mercaptans, cyanides and aldehydes. It also forms toxic fumes with cyanides, sulfide, fluorides, organic peroxides, and halogenated organics. Mixtures with

nitromethane are explosive.

HAZARDOUS REACTIONS: Phosphoric Acid may react vigorously, violently or explosively with

many organic and inorganic chemicals.



11 - TOXICOLOGICAL INFORMATION

Phosphoric Acid has produced no genetic changes in standard tests using bacterial cells.

THRESHOLD LIMIT VALUE:.. 2 mg/m³ based on Phosphoric Acid in blend. **OSHA PEL:....** 2 mg/m³ LISTED CARCINOGEN:............ Phosphoric Acid has produced no genetic changes in standard tests using bacterial cells. MEDICAL CONDITION aggravate pulmonary conditions. Contact of phosphoric acid with skin may aggravate diseases such as eczema and contact dermatitis. INFORMATION ON ACUTE TOXICOLOGICAL EFFECTS ORAL **Product:** Corrosive. Causes serious burns of the mouth or perforation of the esophagus or stomach. May be fatal if swallowed. DERMAL **Product:** Corrosive. Splashes on the skin may cause mild to severe irritation and possible chemical burns. Direct contact can be severely irritating to the skin and may result in redness, swelling, burns and possible severe skin damage. INHALATION **Product:** Corrosive. May be harmful or fatal if inhaled. May cause severe irritation and burns of the nose, throat and respiratory tract. REPEATED DOSE TOXICITY **Product:** Phosphoric Acid has produced no genetic changes in standard tests using bacterial cells. No data on other effects on Humans. SKIN CORROSION / IRRITATION **Product:** The results of single exposure tests indicate that these concentrations of phosphoric acid are slightly toxic after skin application. Following a 24-hour exposure, irreversible eye and skin damage occurred at all tested concentrations of phosphoric acid. SERIOUS EYE DAMAGE / IRRITATION **Product:** Corrosive. Direct contact with the liquid or exposure to vapors or mists may cause stinging, tearing, redness, swelling, corneal damage and irreversible eye damage. Splashes in the eyes will cause severe burns. Contact lenses should not be worn when working with this chemical. RESPIRATORY OR SKIN SENSITIZATION tracheobronchitis, stomatitis, and dermatitis. MUTAGENCITY IN VITRO **Product:** No Data Available IN VIVO **Product:** No Data Available Specified Substance(s) Information as provided by manufacturer Phosphoric Acid No Data Available CARCINOGENICITY



REPODUCTIVE TOXICITY

Product:......Based on the available test, not expected to cause adverse effects on reproduction.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Product: GENERAL: This product contains acids that are corrosive and can cause severe and painful burns on contact with any part of the body or if taken internally. The mucous membranes of the eyes and the upper respiratory tract are especially susceptible to these irritating effects. **INHALATION:** Inhalation of excessive concentrations of mist or vapor can cause severe irritation of the upper respiratory tract, resulting in coughing, burning of the throat, and a choking sensation. If inhaled deeply, edema of the lungs may occur. **EYES:** Contact with this product, either in gas or in solution, can cause severe irritation and painful burns of the eyes and eyelids. The acid MUST be removed quickly with thorough irrigation with water or there may be prolonged or permanent visual impairment or total loss of sight. **SKIN:** Concentrated solutions are destructive to clothing and on contact with skin, can cause severe burns unless promptly washed off. **INGESTION:** This product, when swallowed, can cause severe burns of the mucous membranes of the mouth, esophagus and stomach.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

ASPIRATION HAZARD

OTHER ADVERSE EFFECTS

low pH value harms aquatic organisms.

Product: There is no information available at this time for this product. Studies have shown that bacteria and fungi have the ability to degrade ingredients in this product thereby decreasing their toxicity to fish. However, a spill may produce significant toxicity to aquatic organisms and ecosystems.

12 - ECOLOGICAL INFORMATION

ACUTE TOXICITY

FISH	
Product:	f
harmful effects to fish.	
AQUATIC INVERTEBRATES	
Product: The product may affect the acidity (pH-factor) in water with risk or	f
harmful effects to aquatic organisms.	
CHRONIC TOXICITY	
FISH	
Product:	
AQUATIC INVERTEBRATES	
Product:	
TOXICITY TO AQUATIC PLANTS	
Product:	er. A



PERSISTENCE AND DEGRADABILITY

PERSISTENCE AND DEGRADABILITY
BIODEGRADATION
Product:
material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate
into biological systems.
BIOLOGICAL OXYGEN DEMAND
Product:
CHEMICAL OXYGEN DEMAND
Product:
BOD / COD RATIO
Product:
BIOACCUMULATIVE POTENTIAL
Product:
available scientific literature. It was reported in the literature that while acidity of this material may be
reduced readily in natural waters, the phosphate may persist indefinitely.
MOBILITY IN SOIL
Product: Phosphoric acid (solution) is soluble in water and has high mobility in
soil. During transport through the soil, phosphoric acid (solution) may dissolve some of the soil material; in
particular, the carbonate based materials. The acid will be neutralised to some degree, however, significant
amounts of acid are expected to remain for transport down towards the ground water table. Upon reaching
the ground water table, the acid will continue to move, now in the direction of the ground water flow. Lime
addition may be required to rectify low pH resulting from phosphoric acid (solution) spillages.
RESULTS OF PBT AND mPvB ASSESSMENT
Product:
fulfilling vPvB (very persistent, very bioaccumulative) criteria.
OTHER ADVERSE EFFECTS
Product:
photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from
this product.
13 -DISPOSAL CONSIDERATIONS
WASTE DISPOSAL: Treatment, storage, transportation and disposal must be in accordance
with Federal, State/Provincial and Local Regulations. Regulations may
vary in different locations. Characterization and compliance with
applicable laws are the responsibility solely of the generator. Whatever
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accordance with federal, state and local requirements.



14 - TRANSPORTATION INFORMATION

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.



UN/NA NUMBER:	1760
PROPER SHIPPING NAME:	Corrosive Liquid, n.o.s., Contains (Phosphoric Acid)
HAZARD CLASS:	8
PACKAGING GROUP :	III
LETTER:	C (Corrosive substances)
ENVIRONMENTAL HAZARD:	Phosphoric acid is, with high probability, not acutely harmful to aquatic
	life and it does not accumulate in the food chain.
REPORTABLE QUANTITY:	10,000 pounds (4535.924 kilograms) based on Phosphoric Acid in

15 - REGULATIONS

mixture.

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. This SDS complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD). **IMPORTANT:** Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

EPA SRA Title III Chemical Listings:

TSCA STATUS:	This product is listed on the TSCA inventory. If this product is a blend,
	all ingredients in the product are listed on the TSCA Inventory List.
	Any impurities present in this product are exempt from listing.
SECTION 302:	Phosphoric Acid CAS # 7664-38-2; 5000 pounds (2267.96 kilograms),
	Threshold Planning Quantity (TPQ)
SECTION 304:	Phosphoric Acid CAS # 7664-38-2; 5000 pounds (2267.96 kilograms),
	Threshold Planning Quantity (TPQ)
SECTION 312:	Yes
SARA SECTION 313:	This material contains 20-99% Phosphoric Acid (CAS# 7664-38-2),
	which is subject to the reporting requirements of Section 313 of SARA
	Title III and 40 CFR Part 373.
ACUTE:	Yes
CHRONIC:	Yes
FIRE:	. No
PRESSURE:	
REACTIVE:	. No
CLEAN WATER ACT:	Yes

IMDG – International Marine Dangerous Goods Code

UN1760, Corrosive Liquid, n.o.s., Contains (Phosphoric Acid), 8, PG III. EmS F-A, S-B. Marine Pollutant: No. Static Accumulator: No.

IATA

UN1760, Corrosive Liquid, n.o.s., Contains (Phosphoric Acid), 8, PG III.

DEA Chemical Trafficking Act:.. No



16 – OTHER INFORMATION

HMIS*		
HEALTH	3	
FLAMMABILITY	0	
REACTIVITY	0	
PERSONAL PROTECTION	ON H	

*HMIS®HAZARD INDEX: 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4=Severe Hazard. HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS and product label must be considered.

ND = No Data, NA = Not Applicable/Not Available, $\leq = Less than or equal to$, $\geq = Greater than or equal to$

REVISION STATEMENT: Changes have been made throughout this Safety Data Sheet (SDS). Please read the entire document. Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) by the Company Health and Risk Assessment Unit.

DISCLAIMER:

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, the Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving this Safety Data Sheet (SDS) will make their own determination as to its suitability for their intended purposes prior to use. Since the product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal and State Regulations concerning the Product. It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. REPRESENTATIONS WARRANTIES, **EITHER EXPRESS** OR OR IMPLIED, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

This is the last page of this SDS