

Safety Data Sheet

According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

Version: 1.0

Revision: 2/5/2024

Trade Name: JFS-680P™ - GRID-LOCK – Part B

Section 1: Identification

Product Name JFS-680P™ - GRID-LOCK – Part B

Recommended Use: For Industrial Use Only.

Manufacturer: Elite Crete Systems, 1151 Transport Dr, Valparaiso, IN 46383, USA.

Telephone : 219-465-7671

Emergency Telephone Number: 800-424-9300

Section 2: Hazard Identification

Emergency Overview: Danger. Causes severe skin burns and eye damage. Harmful if swallowed. May cause skin sensitization. Causes damage to organs. Toxic to aquatic life with long-lasting effects.

Component Information/Information on Non-Hazardous Components: No data available.

GHS Classification of the Substance or Mixture (29 CFR 1910.1200):

Skin Corrosive Category 1B

Eye Corrosive Category 2

Skin sensitization Category 1

Specific target organ
toxicity (single exposure) Category 1

Specific target organ
toxicity (repeated exposure) Category 2

Acute aquatic toxicity Category 1

Chronic aquatic toxicity Category 1

GHS Hazards Pictograms:



Signal Word(s): Danger.

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Hazard Statement(s):

H302 +H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction

H318 – Causes serious eye damage. H332 – Harmful if inhaled

H373 - May Cause damage to organs through prolonged or repeated exposure H410 – Very toxic to aquatic life with long-lasting effects.

Precautionary Statement(s):

P201 – Obtain special instructions before use

P202 – Do not handle until all safety precautions have been read and understood P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P261 – Avoid breathing.

P264 - Wash skin thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product

P272 - Contaminated work clothing should not be allowed out of the workplace. P273 – Avoid release to the environment

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection. P281 – Use personal protective equipment as required

P280 - Wear protective gloves and eye protection

P301 + P330 + P331 – IF SWALLOWED: rinse mouth. Call a POISON CENTER or doctor/physician. Do NOT induce vomiting

P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rins skin with water/shower

P304 + P340 + P310 – IF INHALED: Remove victim to fresh and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contac lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P307 + P311 – If exposed: Call a POISON CENTER or doctor/physician P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention P391 – Collect spillage

Storage:

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

Disposal:

P501 - Dispose of contents/container to an approved waste disposal plant in accordance with applicable law and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None known.

Other Information:

None known.

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Section 3: Composition/ Information on Ingredients

Substances

Chemical Name	Identifiers	% (by weight)	Comments
Amines	Trade Secret	100	See above.

Section 4: First-Aid Measures

Inhalation: Move victims into fresh air. If breathing is labored, administer oxygen. If not breathing, give artificial respiration. Consult a doctor immediately.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Take victim immediately to hospital to obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.

Eye contact: Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist/physician. Continue rinsing eyes during transport to hospital. Remove contact lens if worn. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

Ingestion: Rinse out mouth, spit out liquid. Do not induce vomiting and seek medical advice immediately. Never give anything by mouth to an unconscious person.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Alcohol-resistant foam (ATC type preferred), CO₂, dry powder, water spray water fog..

Unsuitable Extinguishing Media: High volume water jet.

Unusual Fire and Explosion Hazards: Firefighters should wear NFPA approved self-contained breathing apparatus and full protective clothing. Avoid contact with product. Decontaminate equipment and protective clothing prior to re-use. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Violent steam generation or eruption may occur upon application of direct water stream to the liquid.

Hazardous Decomposition Products: On combustion, toxic gases, including nitrogen oxides, carbon monoxide, carbon dioxide.

Advice to Fire Fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Toxic gases/fumes may be given off during burning or thermal decomposition. Do not allow run-off from fire fighting to enter drains or water courses.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate personal protective equipment. Evacuate surrounding areas and isolate the area. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Implement site emergency response plan.

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform authorities if the product has caused environmental pollution (sewers, drains, waterways or soil).

Containment/Clean-up Measures: Cleanup personnel must use appropriate personal protective equipment. Evacuate and keep unnecessary personnel out of spill area. Remove all sources of ignition, including flames, heat, and spark. Stop leak if without risk. Move containers from spill area. Dike or dam spilled material with non-combustible, absorbent material (e.g., sand, earth, vermiculite or diatomaceous earth) and control further spillage, where possible. Make certain the absorbent material soaks up all liquids. Keep in suitable, closed containers for disposal.

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Section 7: Handling and Storage

Handling: Do not breathe vapors or spray mist. Avoid contact with eyes or skin. Avoid contact with clothing. Use only with adequate ventilation and personal protection. Remove contaminated personal protective equipment (PPE), then wash hand and face thoroughly after handling and before eating and drinking. Keep container closed when not in use. Empty container retain product residue and can be hazardous. Do not get in eyes, on skin or on clothing. Do not ingest. Keep away from heat, sparks, flames and other sources of ignition. Avoid release to the environment. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination with moisture is suspected. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

Storage: Keep away from food products during use and storage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled, unapproved or reactive containers. Use appropriate containment to avoid environmental contamination. Personnel education and training in the safe use and handling of this product are required under OSHA Hazard Communication Standard 29 CFR 1910.1200. Storage shelf life is 9 months. Storage temperature is 2 - 30°C (38 - 86°F)

Incompatible Materials or Ignition Sources: Stable under recommended storage conditions. Do not store together with oxidizing and acidic materials. Do not store together with caustic solutions and alkalis. Store away from food stuffs. Avoid water, air, humidity, strong acids, oxidizing agents, cotton waste or other combustible materials. Keep away from sources of ignition - No smoking. Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Section 8: Exposure Controls/ Personal Protection

Special Note for Exposure Control: Consult local authorities for further acceptable exposure limits.

Exposure Limits/ Guidelines

Chemical Name	Result	ACGIH/OSHA
Amines	STELs	No data available.
	TWAs	0.02 ppm (OSHA, ACGIH, NIOSH).
	PEL	No data available.

Engineering Measures/Controls: General dilution and local exhaust as necessary to control airborne vapors, mists, dusts, and thermal decomposition products below appropriate airborne concentration standards and guidelines. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the build-up of explosive atmospheres and to prevent off-gases from entering the work place.

Environmental Exposure Controls: Avoid release to the environment. Construct a dike to prevent spreading of spills. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating and drinking, smoking or using the lavatory and at the end of the working period. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Keep away from foodstuffs, beverages and feed.

Personal Protective Equipment

Respiratory: In case of inadequate ventilation, wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use positive pressure supplied air respirator when airborne concentrations are not known, when airborne levels are 10

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times the appropriate TLV, and when spraying is performed or product is applied by aerosol in a confined space or area with limited ventilation. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Contact health and safety professional or manufacturer for specific information.

Eye/Face: Use chemical resistant goggles. Chemical safety goggles in combination with a full face shield (8-inch minimum) must be used if a splash hazard exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Contact lenses should not be worn.

Hands: Use permeation resistant gloves such as neoprene or nitrile. The glove must be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material does not only depend on the material, but also on its quality and varies from manufacturer to manufacturer. The resistance of the glove material and manufacture must be determined in advance of the application/use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin/Body: Wear rubber or plastic apron and permeation resistant clothing, chemical-resistant gloves, and long-sleeved shirts, and pants. Gloves must be inspected prior to use. Remove and wash contaminated clothing before re-use.

General Industrial Hygiene Considerations: Keep away from food and drink. Wash hands and face after use. Educate and train workers in the safe use and handling of this product. Emergency showers and eye wash stations should be available. Follow all label instructions.

Key to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

MSHA = Mine Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day 40hr/week exposures

STEL = Short Term Exposure Limits are based on 15 minute exposures

Section 9: Physical and Chemical Properties

Information on Physical and Chemical Properties

Physical Form	Liquid	Appearance/Description	Grey liquid.
Color	Dove Tail Grey	Odor	Minimal or no odor.
Boiling Point	Not available	Bulk Density	No data available.
Specific Gravity	1.31 ± 0.1	UEL	No data available.
Water Solubility	Partially Soluble.	LEL	No data available.
Flash Point	100°C (>212°F) Ca	NVW	100%

Section 10: Stability and Reactivity

Reactivity

No data available.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: May react with isocyanates, acids, oxidizing agents, peroxides.

Conditions to Avoid: Avoid oxidizing agents.

Incompatible Materials: Strong acids, strong oxidizing agents.

Hazardous Decomposition Products: Ammonia, carbon monoxide, carbon dioxide, nitrogen oxides and other undetermined compounds.

Section 11: Toxicological Information

ACUTE TOXICITY

No data available on the product itself.

For major components:

LD50 Oral Rat 475 mg/kg

LC50 Inhalation Rat >2,090 mg/l

LD50 Dermal Rabbit >2,000 mg/kg

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Other Information:

On the skin: May cause burns.

On the eye: May be corrosive.

Sensitization: Sensitization possible through skin contact.

CARCINOGENICITY

This product does not contains a component that is classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification:

IARC, NTP, and OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

REPRODUCTIVE TOXICITY: No data available.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: No data available.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: No data available.

ASPIRATION HAZARD: No data available.

ADDITIONAL INFORMATION: No data available.

TO THE BEST OF OUR KNOWLEDGE THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES OF THIS PRODUCT HAVE NOT BEEN THOROUGHLY INVESTIGATED.

Section 12: Ecological Information

Toxicity

This product is harmful to the environment. Very toxic to fish and other aquatic life with long-lasting effects.

Persistence and degradability: According to the results of tests of biodegradability, this product is not readily biodegradable.

Bioaccumulative potential: No data available.

Other adverse effects: No data available.

Section 13: Disposal Considerations

Waste Treatment Methods: Dispose in accordance with Federal, State, and Local laws and regulations. The generation of waste should be avoided or minimized wherever possible. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Empty containers should be taken to an approved waste handling site for recycling or disposal. Incineration or landfill should only be considered when recycling is not feasible. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty Container Precautions: Dispose of as unused product. Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental laws and regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

Section 14: Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(es)	14.4 Packing Group	14.5 Environmental Hazards
DOT	2735	Amines, Liquid, Corrosive, N.O.S.	8	II	Marine Pollutant
IMO/IMDG	2735	Amines, Liquid, Corrosive, N.O.S.	8	II	Marine pollutant
IATA/ICAO	2735	Amines, Liquid, Corrosive, N.O.S.	8	II	Marine pollutant

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Special Precautions for User:

None known.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

State Right to Know

Component	CAS	MA	NJ	PA
None known.	-	-	-	-

Inventory

Component	CAS	Canada DSL	Canada NDSL	TSCA
Amines	-	Listed	-	Listed

HMIS Rating: 3 * 1 0

NFPA Rating: 3 1 0

This product is in compliance with the inventory listing of the following countries:

Europe	listed/registered
Australia (AICS)	listed/registered
Japan (MITI)	listed/registered
Korea (KECI)	listed/registered
Philippines (PICCS)	listed/registered
China	listed/registered
New Zealand	listed/registered

US Federal Regulations

U.S. – CERCLA/SARA – Hazardous Substances and their Reportable Quantities: None

U.S. – SARA – Section 311/312 Hazard Categories: Acute health hazard

U.S. – CERCLA/SARA – Section 302 Extremely Hazardous Substances TPQs: None

U.S. – CERCLA/SARA – Section 313 – Emissions Reporting: None

U.S. – CERCLA/SARA – Section 313 – PBT Chemical Listing: None

U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components: None

U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 372.65) Supplier Notification Required Components: None

U.S. Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): Under RCRA it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Regulations

United States – California

U.S. – California – Proposition 65 – Carcinogens List: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.).

U.S. – California – Proposition 65 – Developmental Toxicity: None

U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL): None

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U.S. – California – Proposition 65 – No Significant Risk Levels (NSRL): None

U.S. – California – Proposition 65 – Reproductive Toxicity – Female: None

U.S. – California – Proposition 65 – Reproductive Toxicity – Male: None

Based on information provided by Pflaumer suppliers, this product is considered “DRC Conflict Free” as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716, File No. S7-40-10, Date 08-22-212).

Section 16: Other Information

Last Revision Date: DA

Preparation Date: 2-5-24

Disclaimer/ Statement of Liability:

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Pflaumer Brothers, Inc. The information in this MSDS relates only to the specific material designated herein. Pflaumer Brothers, Inc. assumes no legal responsibility for use of or reliance upon the information in this SDS.

Key to Abbreviations

NDA = No data Available