OSHA Hazard Communication Standard 29 CFR 1900.1200
Prepared to GHS Rev. 4

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Integrity Without Compromise

SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Prepsolve

Product Use: Solvent

Use Restrictions: For Industrial and Professional Use Only

Manufacturer: Southeastern Chemical Industries Group LLC
660 Oak Place
Port Orange, FL 32127
386-760-9332

Transportation Emergency: 800-535-5053 (INFOTRAC)

SECTION 2- HAZARDS IDENTIFICATION

1) GHS Classification of the substance or mixture:

Acute toxicity, Oral – Category 1
Acute toxicity, Skin- Category 2
Flammable Liquids- Category 3
Specific target organ toxicity- repeated exposure- Category 3 (Central Nervous System)
Aspiration Hazard – 1
Acute toxicity, Inhalation – Category 1
Carcinogenicity- Category 1B

2) Label Elements:

Signal Word: Danger

Hazard Statements:
H226- Flammable liquid and vapor
H300+H310+H330 – Fatal if swallowed, in contact with skin or inhaled
H304- May be fatal if swallowed & enters airways
H315- Causes skin irritation
H319- Causes eye irritation
H336- May cause drowsiness or dizziness
H340+H350- May cause genetic defects and/or cancer
H373 – May cause damage to organs (Central Nervous System) through prolonged or repeated exposure or if swallowed.

Precautionary Statements:
P102- Keep out of reach of children
P210- Keep away from heat/sparks/open flame
P233- Keep container tightly closed.
P240+P241+P242 – Ground/bond container & receiving equipment, use explosion proof electrical/ventilating/lightning equipment and non sparking tools
P261- Avoid breathing fume and vapours spray.
P264- Wash skin thoroughly after handling.
P271- Use only outdoors or in a well ventilated area.
P270 – Do not eat, drink, or smoke when using this product
P280+P284- Wear solvent resistant protective gloves, splash proof eyewear and respiratory protection

Response Statements:
P301+P310 – IF SWALLOWED: Immediately call POISON CENTER or doctor/physician
P303+P353+P361+P363- IF ON SKIN (or hair): Rinse skin with water/shower. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present, and easy to do so. Continue Rinsing.
P304+P340+ IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 – Get medical advice/attention if you fell unwell

Storage and Disposal Statements:
P233+P235+P403- Keep container tightly closed, keep cool and store in a well-ventilated place.
P405- Store locked up.
P501- Dispose of contents/container in accordance with local/regional/national regulation.

Other Hazards:
OSHA HCS 2012- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

HMIS Classification:
Health Hazard- 2
Flammability- 3
Physical Hazards- 0

NFPA Classification:
Health - 2
Instability - 0
Flammability - 3

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

Chemical/Common Name	CAS #	PERCENTAGE	HAZARDOUS
Medium aliphatic solvent	8052-41-3	40-50%	Yes
Light aliphatic solvent	64742-49-0	40-50%	Yes

SECTION 4- FIRST AID MEASURES

Inhalation: If affected, remove individual to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet and obtain medical attention.
Skin: Immediately flush affected area with lots of water for at least 2 minutes. Remove contaminated clothing and wash before reuse.
Eyes: Flush immediately with large quantities of running water for at least 5 minutes. Obtain medical attention.
Ingestion: Immediately rinse mouth with a lot of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

SECTION 5-FIRE FIGHTING MEASURES

Flash Point: 68°F (T.C.C.)
Autoignition Temperature: 230°C (446°F) (ASTMD – 56)
Lower Explosive Limit: 0.5% (V) **Upper Explosive Limit:** 5.6% (V)

General Hazards-
Fire: Product is flammable or combustible in presence of ignition source.

Suitable Extinguishing Media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Treat as Class B (flammable liquid) fire.
Fire Fighting Procedures: Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Combustion Products: Normal thermal decomposition byproducts i.e. carbon oxides.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing vapors, mist or gas.
Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.
Environmental precautions: Avoid run off to waterways and sewers.
Methods and material for containment and cleaning up: Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material (i.e. sand, earth, vermiculite) and transfer to appropriate waste disposal container.

SECTION 7- HANDLING AND STORAGE

Precautions for safe handling:
Avoid formation of aerosol. Avoid contact with skin and eyes by wearing protective clothing and equipment. Avoid inhalation of vapour or mist. Use only with adequate ventilation. Take precautionary measures against static discharge.
Conditions for safe storage:
Keep container tightly closed in a dry and well-ventilated place. Store away from acids, acidic materials and oxidizers. Do not store near heat or open flame.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Component	CAS #	ACGIH Exposure Limits	OSHA Exposure Limits
Medium Aliphatic Solvent	8052-41-3	200 ppm (TWA)	500 ppm (TWA)
Light Aliphatic Solvent	64742-49-0	100 ppm (TWA)	500 ppm (TWA)

Personal Protective Equipment-

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.
Hand protection: Wear protective gloves made from the following materials- nitrile rubber or polyethylene. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye Protection: Wear safety glasses with side shields.
Skin and Body Protection: Where extensive dermal exposure may be expected, either a chemical suit or chemical apron will be needed.
Hygienic Practices: 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.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Products Description: Clear colorless liquid with hydrocarbon odor
Odor Threshold: No data available
Solubility in Water: Negligible
Boiling Point: 245-425°F
Vapor Pressure (mmHg): 11 mmHg @ 25°C (77°F)

Vapor Density (AIR=1):	Not determined
Evaporation Rate (BUTYL ACETATE=1):	0.5
Flash Point (T.C.C.):	68°F
Density:	6.32 lbs/gal

SECTION 10- STABILITY AND REACTIVITY DATA

Stability: Stable under recommended storage conditions.
Material to Avoid: Avoid contact with bases, acids and strong oxidizers such as permanganate, chlorine, etc.
Conditions to Avoid: Keep away from heat, sparks and open flame.
Hazardous Reactions: Vapors may form explosive mixture with air.
Hazardous Decomposition Products: Material does not decompose at ambient temperatures.

SECTION 11- TOXICOLOGICAL INFORMATION

Light Aliphatic Solvent (CAS 64742-49-0)-

TOXICITY-

Acute oral toxicity- LD50 (rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity- LC50 (rat, male and female): > 73.5 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity- LD50 (rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

SKIN CORROSION/IRRITATION-

Species: rabbit
Exposure time: 24 h
Method: OECD Test Guideline 404
Result: Irritating to skin.
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

SERIOUS EYE DAMAGE/EYE IRRITATION-

Result: No eye irritation

RESPIRATORY OR SKIN SENSITISATION-

Test Type: Maximization test
Species: guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.
Remarks: Based on a similar product formulation.

GERM CELL MUTAGENICITY-

Result: Mutagenicity classification not possible from current data

CARCINOGENICITY-

Result: Not classifiable as a human carcinogen.

REPRODUCTIVE TOXICITY-

Effects on Fertility- Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.

STOT-SINGLE EXPOSURE- Inhalation- (Central Nervous System): May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

REPEATED DOSE TOXICITY-

Species: rat, male
NOAEL: 12470 mg/m3
Application Route: inhalation (vapour)
Exposure time: 16 wks
Number of exposures: 12 h/d, 7 d/wk
Dose: 0, 12470 mg/m3
Remarks: Information given is based on data obtained from similar substances.

Species: rat, male and female
NOAEL: 1402
Application Route: inhalation (vapour)
Test atmosphere: vapour
Exposure time: 13 weeks
Number of exposures: 6 hours/day, 5 days/week
Dose: 322, 1402, 9869 mg/m3
GLP: yes
Target Organs: Kidney
Symptoms: Nasal and ocular discharge

Aspiration Toxicity: May be fatal if swallowed and enters airways.

Further information: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

<u>Medium Aliphatic Solvent (CAS 8052-41-3)-</u>

TOXICITY-

Acute oral toxicity- LD50 Oral: >5,000 mg/kg
Assessment: Minimally toxic based on test data for structurally similar materials.

Acute inhalation toxicity-
Assessment: Substance or mixture has no acute inhalation toxicity.

Acute dermal toxicity- LD50: >3,160 mg/kg
Assessment: Substance or mixture has no acute dermal toxicity.

SKIN CORROSION/IRRITATION-

Species: rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: Irritating to skin.

SERIOUS EYE DAMAGE/EYE IRRITATION-

Species: rabbit
Result: Irritating to eyes.
Method: OECD Test Guideline 405

RESPIRATORY OR SKIN SENSITISATION-

Test Type: Buehler Test
Species: guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitization on laboratory animals.

GERM CELL MUTAGENICITY-

Genotoxicity in vitro-
Test Type: Ames test
Metabolic activation: with and without metabolic acti-vation
Result: positive

Genotoxicity in vivo-

Test Type: In vivo micronucleus test
Test species: mouse
Cell type: Peripheral blood erythrocytes Application Route: Inhalation Exposure time: 3 mths
Dose: 138 - 2200 mg/m3
Result: positive

Test Type: In vivo micronucleus test Test species: rat
Cell type: Peripheral blood erythrocytes Application Route: Inhalation Exposure time: 3 mths
Dose: 138 - 2200 mg/m3
Result: positive

Germ cell mutagenicity- Assessment: Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals

CARCINOGENICITY-

Species: rat, (male and female)
Application Route: Inhalation
Exposure time: 105 wks
Activity duration: 6 h
Dose: 0, 138, 550, 1100, 2200 mg/m3
Frequency of Treatment: 5 days/week
NOAEL: 138 mg/m³
Result: No evidence of carcinogenic activity in females, Evidence of carcinogenic activity in males
Symptoms: Increased incidence of pheochromocytomas in adrenal glands
Remarks: Category 1B

Carcinogenicity – Assessment: Possible human carcinogen

REPRODUCTIVE TOXICITY-

Effects on Fertility-
Application Route: Oral
Dose: 0, 750, 1500, 3000 mg/kg/d
General Toxicity - Parent: NOAEL: 1,500 mg/kg body weight
Fertility: NOAEL: >= 3,000 mg/kg body weight
Symptoms: weight loss
Result: No reproductive effects.
Remarks: Information given is based on data obtained from similar substances.

Species: rat
Application Route: Oral
Dose: 0, 325, 750, 1500 mg/kg/d
General Toxicity - Parent: NOAEL: 750 mg/kg body weight
General Toxicity F1: NOAEL: 750 mg/kg body weight
Fertility: NOAEL: >= 1,500 mg/kg body weight
Symptoms: Reduced maternal body weight gain. Reduced offspring weight gain.
Result: Animal testing did not show any effects on fertility.
Remarks: Information given is based on data obtained from similar substances.

Species: rat
Application Route: Dermal
Dose: 0, 165, 330, 494 mg/kg
General Toxicity - Parent: NOAEL: >= 494 mg/kg
Fertility: NOAEL: >= 494 mg/kg
Early Embryonic Development: NOAEL: >= 494 mg/kg
Result: No reproductive effects.
Remarks: Information given is based on data obtained from similar substances.

Effects on foetal development-
Species: rat
Application Route: Oral
Dose: 0, 500, 1000, 1500, 2000 milligram per kilo-gram

Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: 500 mg/kg body weight
Teratogenicity: NOAEL: 2,000 mg/kg body weight
Developmental Toxicity: NOAEL: 1,000 mg/kg body weight
Symptoms: Reduced body weight
Method: OECD Test Guideline 414
Result: Developmental toxicity occurred at maternal toxicity dose levels, No teratogenic effects.

STOT-SINGLE EXPOSURE- Inhalation- (Central Nervous System): May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

REPEATED DOSE TOXICITY-
Species: Rat, male and female
NOAEL: 275
Application Route: Inhalation
Exposure time: 14 wks
Number of exposures: 6 h/d, 5 d/wk
Dose: 138, 275, 550, 1100, 2200mg/m3
Group: yes
Symptoms: nasal symptoms, Testicular effects, Kidney disorders
Remarks: male rat hydrocarbon nephropathy not relevant to humans

Repeated dose toxicity – Assessment: Causes skin irritation.

Aspiration Toxicity: May be fatal if swallowed and enters airways.

Further information: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

SECTION 12- ECOLOGICAL INFORMATION

Medium Aliphatic Solvent (CAS 8052-41-3)-

ECOTOXICITY-

Toxicity to fish- LL50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates- EL50(Daphnia magna(Water flea)): 1.4 mg/l

Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae- EL50 (Pseudokirchneriella subcapitata): 1 mg/l

End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Ecotoxicology Assessment-
Acute aquatic toxicity: Toxic to aquatic life.

Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

PERSISTENCE AND DEGRADABILITY-

Biodegradability:aerobic
Concentration: 101 mg/l
Biodegradation: 61 %
Testing period: 10 d
Exposure time: 28 d
Lag phase: 5 d
Test substance: Solvent naphtha (petroleum), heavy aromatic
GLP: yes

BIOACCUMULATIVE POTENTIAL-

Partition coefficient (N-octanol/water): log Pow: No data available

REGULATION/REMARKS-

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances.
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A+B).
Additional Information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

Light Aliphatic Solvent (CAS 64742-49-0)-

ECOTOXICITY-

Toxicity to fish- LC50 (Carassius auratus (goldfish)): 4 mg/l
Exposure time: 24 h
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates-EC50 (Daphnia magna (Water flea)): 1.5 mg/l
Exposure time: 48 h
Test Type: static test
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae-EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l
Exposure time: 96 h
Test Type: static test

Ecotoxicology Assessment-
Acute aquatic toxicity: Very toxic to aquatic life.
Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

PERSISTENCE AND DEGRADABILITY-

Biodegradability:aerobic
Inoculum: activated sludge
Concentration: 20 mg/l
Biodegradation: 74.30 %
Exposure time: 56 d
GLP: yes
Remarks: Inherently biodegradable

BIOACCUMULATIVE POTENTIAL-

Partition coefficient (N-octanol/water): log Pow: 2.13 - 4.85 (25 °C)

REGULATION/REMARKS-

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances.
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A+B).

Additional Information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

SECTION 13- DISPOSAL CONSIDERATIONS

Further information: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of as hazardous waste in compliance with local and national regulations.

SECTION 14- TRANSPORT INFORMATION

Transport in accordance with all federal, state and local regulations.

DOT-
UN Number: UN 1268 Petroleum Distillates, N. O. S., (Aliphatic Solvent), Combustible liquid
Hazard class: 3
Packing group: III

SECTION 15- REGULATORY INFORMATION

OSHA Hazards: Flammable liquid, mild skin irritant and eye irritant, carcinogen, aspiration hazard.

CERCLA Reportable Quantity- This product does not contain any components with a CERCLA RQ.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Fire hazard, delayed health hazard

Clean Air Act: This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Preventation (40 CFR 68.130, Subpart F). This product does contain chemical(s) listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489): Mixed Xylenes, Toluene, Benzene, Cumene.

Massachusetts Right to Know Components:

Product	CAS No.	Percentage
Medium Aliphatic Solvent	8052-41-3	40-50%
Light Aliphatic Solvent	64742-49-0	40-50%

Pennsylvania Right to Know Components:

Product	CAS No.	Percentage
Medium Aliphatic Solvent	8052-41-3	40-50%
Light Aliphatic Solvent	64742-49-0	40-50%

New Jersey Right to Know Components:

Product	CAS No.	Percentage
Medium Aliphatic Solvent	8052-41-3	40-50%
Light Aliphatic Solvent	64742-49-0	40-50%

California Prop. 65 Components: This product contains a chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16- OTHER INFORMATION

References: Not available

DISCLAIMER:
The information on this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this MSDS information may not be applicable. Information is correct to the best of our knowledge at the date of the MSDS publication.