

Material Safety Data Sheet

Synvert LEM

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

1. Product and Company Identification

Material name	Synvert LEM
Patent Number	Not available
Revision date	July-27-2010
Version No.	2
CAS #	Mixture
Manufacturer information	INTEGRITY INDUSTRIES INC.
Supplier information	INTEGRITY INDUSTRIES INC. P O BOX 5342 Kingsville, TX 78363
Supplier emergency telephone number(s)	CHEMTREC 1-800-424-9300/361-595-5561

2. Hazards Identification

Emergency overview	WARNING May be harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. May cause cancer. Prolonged exposure may cause chronic effects. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Skin contact. Eye contact. Inhalation. Ingestion.
Eyes	Do not get this material in contact with eyes. Contact may irritate or burn eyes. Eye contact may result in corneal injury.
Skin	Do not get this material in contact with skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Prolonged skin contact may result in skin irritation and skin cancer.
Inhalation	Do not inhale/breathe vapors. Prolonged inhalation may be harmful. Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
Ingestion	May cause delayed lung damage. Do not ingest. Components of the product may be absorbed into the body by ingestion.
Target organs	Eyes. Lungs. Respiratory system. Skin.
Chronic effects	Shortness of breath. Conjunctiva. May cause delayed lung damage. Prolonged skin contact may defat the skin and produce dermatitis.
Signs and symptoms	Discomfort in the chest. Shortness of breath. Corneal damage. Cough. Conjunctivitis. Defatting of the skin. Rash. Irritation.

Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Biobase 300	8012-95-1	30 - 60

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, rinse with water for 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if symptoms occur.
Skin contact	Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion	Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to physician

Symptoms may be delayed.

General advice

Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Containers may explode when heated. Combustible by OSHA criteria.

Extinguishing media

Suitable extinguishing media	Water. Water fog. Dry chemical, CO ₂ , water spray or regular foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Protective equipment and precautions for firefighters	In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.
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6. Accidental Release Measures

Personal precautions	Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.
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Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Keep away from heat, sparks and open flame - No smoking. All equipment used when handling the product must be grounded. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Use only with adequate ventilation. Avoid release to the environment. Avoid prolonged exposure.

Storage

Keep away from heat and sources of ignition (spark or flame). The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep in a well-ventilated place. Keep this material away from food, drink and animal feed. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components

CAS #

TWA

STEL

Ceiling

Biobase 300	8012-95-1	5 mg/m ³	10 mg/m ³	Not established
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OSHA

Components

CAS #

TWA

STEL

Ceiling

Biobase 300	8012-95-1	5 mg/m ³	Not established	Not established
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Engineering controls

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection

Do not get this material in contact with eyes. Wear chemical goggles.

Skin protection

Do not get this material in contact with skin. Protective gloves. Impervious gloves. Wear suitable protective clothing.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. A NIOSH- approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

General hygiene considerations

Do not get this material in your eyes, on your skin, or on your clothing. When using do not eat or drink. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Liquid.
Color	Dark brown
Odor	Light petroleum.
Odor threshold	Not available
Physical state	Liquid.
Form	Liquid.
pH	Not available
Melting point	32 °F (0 °C) estimated
Freezing point	Not available
Boiling point	215.6 °F (102 °C) estimated
Flash point	> 200 °F (> 93.3 °C)
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.94
Relative density	0.9399 g/cm ³ estimated
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Acids.

11. Toxicological Information

Acute effects	Acute LD50: 5000 mg/kg estimated, Rat, Oral Acute LD50: 5797 mg/kg estimated, Rat, Dermal Acute LC50: 1220 mg/l/4h estimated, Rat, Inhalation
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Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Biobase 300 8012-95-1 Oral LD50 Mouse: 22 g/kg

Sensitization	May cause sensitization of susceptible persons.
Local effects	Contact may irritate or burn eyes. Components of the product may be absorbed into the body through the skin.
Chronic effects	Hazardous by OSHA criteria. Prolonged exposure may cause chronic effects.
Carcinogenicity	Suspect cancer hazard. Prolonged and repeated skin contact with some mildly treated or untreated mineral oils have produced skin cancer in laboratory animals.
Epidemiology	Hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity	EC50 21.01 mg/L estimated, Daphnia, 48.00 Hours, Components of this product have been identified as having potential environmental concerns.
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13. Disposal Considerations

Disposal instructions	Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
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14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

Labelling

Contains Biobase 300

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

U.S. - FDA - Direct Food Additives

Biobase 300 8012-95-1 21 CFR 172.878, 21 CFR 173.340

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations

Canada - WHMIS - Ingredient Disclosure List

Biobase 300	8012-95-1	1 %
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State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List

Biobase 300	8012-95-1	Present (mist)
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U.S. - Minnesota - Hazardous Substance List

Biobase 300	8012-95-1	Carcinogen
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U.S. - New Jersey - Right to Know Hazardous Substance List

Biobase 300	8012-95-1	sn 1437
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U.S. - Pennsylvania - RTK (Right to Know) List

Biobase 300	8012-95-1	Present
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U.S. - Rhode Island - Hazardous Substance List

Biobase 300	8012-95-1	Flammable; Toxic
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U.S. - Texas - Effects Screening Levels - Long Term

Biobase 300	8012-95-1	5 µg/m3 ESL (mist)
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U.S. - Texas - Effects Screening Levels - Short Term

Biobase 300	8012-95-1	50 µg/m3 ESL (mist)
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16. Other Information

HMIS® ratings	Health: 2* Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
Prepared by	Product Stewardship 515 Post Oak Blvd Houston, TX 77027 +1-713-968-2306
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MSDS sections updated	Product and Company Identification: Alternate Trade Names Physical & Chemical Properties: Color