Material Safety Data Sheet

SYNVERT TWA

1. Product and Company Identification

Material name	**SYNVERT TWA**
Patent Number	Not available
Revision date	December-14-2010
Version No.	1
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 ignited by heat, sparks or flames. Harmful by inhalation and if swallowed. Irritating to eyes, respiratory system and skin. Prolonged exposure may cause chronic effects. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Skin contact. Inhalation.
Eyes	Eye contact may result in corneal injury. Do not get this material in contact with eyes. Contact may irritate or burn eyes.
Skin	Irritating to skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Do not get this material in contact with skin.
Inhalation	Do not breathe vapor. Prolonged inhalation may be harmful. Irritating to respiratory system.
Ingestion	May cause delayed lung damage. Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. 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	65 - 100
2-Ethylhexanol	104-76-7	3 - 7

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, rinse with water for 15 minutes. Get medical attention immediately.
Skin contact	Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen.
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

Extinguishing media

Suitable extinguishing media	Water. Water fog. Dry chemical, CO2, 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	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. 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. Do not scatter spilled material with high pressure water streams. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation. 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.

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 sources of ignition - No smoking. Do not breathe vapors or spray mist. Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment.
Storage	Keep away from heat and sources of ignition (spark or flame). Store in a closed container away from incompatible materials. Keep in a well-ventilated place. 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/m3	10 mg/m3	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Biobase 300	8012-95-1	5 mg/m3	Not established	Not established

Engineering controls	Ensure adequate ventilation, especially in confined areas.
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 appropriate chemical resistant clothing.
Respiratory protection	Wear positive pressure self-contained breathing apparatus (SCBA). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygeine considerations	Do not get this material in contact with eyes. Do not get this material in contact with skin. 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	Dark liquid.

Color	Dark brown
Odor	Bland.
Odor threshold	Not available
Physical state	Liquid.
Form	Viscous liquid.
pH	Not available
Melting point	30.2 °F (-1.33 °C) estimated
Freezing point	Not available
Boiling point	390 - 400 °F (198.9 - 204.4 °C)
Flash point	220 °F (104.4 °C)
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	0.2134 %
Flammability limits in air, lower, % by volume	0.0317 %
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.98
Relative density	0.9799 g/cm3 estimated
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
VOC	4.73 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Acids.
Hazardous decomposition products	Smoke Carbon oxides.

11. Toxicological Information

Acute effects

Acute LD50: 7604 mg/kg estimated, Rat, Oral
Acute LD50: 3226 mg/kg estimated, Rat, Dermal
Acute LC50: 711 mg/l/4h estimated, Rat, Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

2-Ethylhexanol	104-76-7	Oral LD50 Rat: 1516-2774 mg/kg
Biobase 300	8012-95-1	Oral LD50 Mouse: 22 g/kg

Sensitization

Not expected to be hazardous by OSHA criteria.

Local effects

Contact may irritate or burn eyes. Irritating to skin. Irritating to respiratory system. Components of the product may be absorbed into the body through the skin.

Chronic effects	Hazardous by OSHA criteria. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.
Carcinogenicity	Not expected to be hazardous by OSHA criteria.
Neurological effects	Not expected to be hazardous by OSHA criteria.
Epidemiology	Hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity EC50 12.21 mg/L estimated, Daphnia, 48.00 Hours,
Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae Data

2-Ethylhexanol	104-76-7	72 Hr EC50 Scenedesmus subspicatus: 11.5 mg/L

Ecotoxicity - Freshwater Fish Species Data

2-Ethylhexanol	104-76-7	96 Hr LC50 Oncorhynchus mykiss: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 27-29.5 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 29.7 mg/l [static]

Ecotoxicity - Water Flea Data

2-Ethylhexanol	104-76-7	48 Hr EC50 Daphnia magna: 39 mg/L

Environmental effects

Ecotoxicity - Freshwater Algae Data

2-Ethylhexanol	104-76-7	72 Hr EC50 Scenedesmus subspicatus: 11.5 mg/L

Ecotoxicity - Freshwater Fish Species Data

2-Ethylhexanol	104-76-7	96 Hr LC50 Oncorhynchus mykiss: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 27-29.5 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 29.7 mg/l [static]

Ecotoxicity - Water Flea Data

2-Ethylhexanol	104-76-7	48 Hr EC50 Daphnia magna: 39 mg/L

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.

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as hazardous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as hazardous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as hazardous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

Labelling

Contains	2-Ethylhexanol, Biobase 300
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.

FEMA (Flavor and Extract Manufacturers Association) - FEMA Numbers

2-Ethylhexanol	104-76-7	3151

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)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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

2-Ethylhexanol	104-76-7	1 %
Biobase 300	8012-95-1	1 %

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

2-Ethylhexanol	104-76-7	Present
Biobase 300	8012-95-1	Present (mist)

U.S. - Minnesota - Hazardous Substance List

Biobase 300	8012-95-1	Carcinogen

U.S. - New Jersey - Right to Know Hazardous Substance List

Biobase 300	8012-95-1	sn 1437

U.S. - Pennsylvania - RTK (Right to Know) List

2-Ethylhexanol	104-76-7	Present
Biobase 300	8012-95-1	Present

U.S. - Rhode Island - Hazardous Substance List

Biobase 300	8012-95-1	Flammable; Toxic

U.S. - Texas - Effects Screening Levels - Long Term

2-Ethylhexanol	104-76-7	14 ppb ESL (odor); 74 µg/m3 ESL (odor)
Biobase 300	8012-95-1	5 µg/m3 ESL (mist)

U.S. - Texas - Effects Screening Levels - Short Term

2-Ethylhexanol	104-76-7	140 ppb ESL (odor); 740 µg/m3 ESL (odor)
Biobase 300	8012-95-1	50 µg/m3 ESL (mist)

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
Disclaimer	THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.
Issue date	December-14-2010