

lyondellbasell

Material Safety Data Sheet

Product Code 20B48AS
Revision Date 07/07/2005
Supersedes 07/07/2005
Date Printed 05/11/2010

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Identification of the Substance:

Trade Name: Terpene SW Blend

Chemical Name: None (mixture)

Use of the Substance:

Company Identification:

LyondellBasell Flavors & Fragrances, LLC
P.O. Box 389
Jacksonville, FL 32201, USA
Telephone: 904-768-5800
Fax:904-768-2200

European Headquarters
LyondellBasell Flavors & Fragrances, LLC
C/O SCM EUROPE
Place de l'ALBERTINE 2
B-1000 Brussels - Belgium
Telephone: +32.2.289.05.10 Fax:+32.2.289.05.90

Emergency Telephone: CHEMTREC: (USA, Canada): 1-800-424-9300 ;(All Others): 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	EINECS Number	Ingredient	Typical Weight %
8002-09-3	304-455-9	PINE OIL	> 50
68956-56-9	273-309-3	HYDROCARBONS, TERPENE PROCESSING, BY-PRODUCT	1-10

EU Classifications (refer to Section 16 for descriptions):

Symbol(s)	Risk Phrase Code(s)	Safety Phrase Code(s)
Xi	R36/38	S24/25

3. HAZARDS IDENTIFICATION

This substance is classified as dangerous according to EU Directive 1999/45/EC.

Potential Health Effects

Acute Health Effects:

Contact with the undiluted material may cause eye and skin irritation.

Chronic Health Effects:

Not Determined.

4. FIRST AID MEASURES

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Inhalation:

Seek fresh air immediately. If breathing is difficult, seek medical advice.

Eye Contact:

Flush with water for at least 15 minutes. If irritation develops, get medical attention.

Skin Contact:

Remove contaminated clothing. Wash affected areas with plenty of soap and water. If irritation develops, seek medical advice.

Ingestion:

Drink lots of water to dilute substance. Do not induce vomiting. Get medical attention immediately or contact a poison control center for advice.

Notes to Physician:

Probable mucosal damage may contraindicate to use of gastric lavage. Aspiration of the vomitus may cause lung damage.

5. FIRE FIGHTING MEASURES

Suitable Fire Extinguishing Media:

Carbon dioxide, dry chemical, foam.

Unsuitable Fire Extinguishing Media:

If water must be used, use as a spray only.

Special Exposure Hazards:

Avoid heat, sparks and open flames.

Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, acrid fumes.

Special Protective Equipment for Fire Fighters:

Standard turnout gear for combustible liquids.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Standard turnout gear for combustible liquids.

Environmental Precautions:

Do not allow the substance or solutions of the substance to be discharged into lakes, streams, ponds or public waters.

Cleanup Procedures:

Small spills should be absorbed by dirt, sand, or other absorbent. Large spills may be pumped into containers for recovery/disposal.

7. HANDLING AND STORAGE

Handling:

Wear goggles or face shield and rubber gloves when handling.

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Storage:

Do not store in close proximity to excessive heat, open flames, strong acids or strong bases. To minimize product degradation, avoid prolonged exposure of the substance to air. Keep container tightly closed when not in use.

Ventilation:

Local mechanical exhaust may be needed in confined and warm areas.

Safety Stations:

An eyewash station and a safety shower should be readily available and clearly marked.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

None found.

Exposure Controls:

Respiratory Protection:

A respirator is not normally required. If vapor concentration is suspected to be high, use a NIOSH approved organic vapor respirator

Eye Protection:

Wear goggles or full face shield

Hand Protection:

Wear standard industrial type rubber gloves.

Skin Protection:

A rubber apron is recommended when handling the material for extended periods of time.

Personal Hygiene:

Wash hands and other exposed areas of skin with soap and water after handling the material.

Environmental Controls:

No environmental exposure controls required under Community environmental protection laws.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

<u>Property</u>	<u>Result</u>
Appearance:	Pale-yellow liquid.
Odor:	Piney, sulfur odor.

Important Health, Safety and Environmental Information:

<u>Property</u>	<u>Result</u>
pH:	Not determined.
Boiling Point:	380.8°F (Distillation)
Flash Point:	158°F (Tag Closed Cup)

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Melting Point:	Not determined.
Flammability:	Not determined.
Explosive Properties:	Not an explosive.
Oxidizing Properties:	Not determined.
Vapor Pressure:	Not determined.
Solubility in Water (Weight%):	~2
Solubility in Alcohol(Weight%):	Not determined.
Fat Solubility:	Not determined.
Partition Coefficient (n-Octanol/Water):	Not determined.
Viscosity:	Not determined.
Vapor Density (air=1):	Not determined.
Evaporation Rate (Butyl Acetate=1):	Not determined.
Autoignition Temperature:	Not determined.
Volatiles (Weight%):	99.8
Specific Gravity:	0.9174 @ 25 C

10. STABILITY AND REACTIVITY

Stability:

Substance is stable and unreactive under conditions of normal use.

Conditions to Avoid:

Prolonged or excessive heat and/or exposure to air may cause non-hazardous decomposition and/or oxidation of the substance.

Materials to Avoid:

Avoid contact with strong acids, bases and materials that react with unsaturated alcohols.

Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, acrid fumes.

11. TOXICOLOGICAL INFORMATION

Primary Target Organs: Eyes, Skin, Respiratory tract.
Primary Entry Route(s): Eyes, Skin, Inhalation.
Medical Conditions Aggravated by Overexposure No known conditions.

Acute Toxicity:

<u>Parameter</u>	<u>Result</u>
Acute Oral Toxicity:	Not determined.
Acute Inhalation Toxicity:	Not determined.
Acute Dermal Toxicity:	Not determined.
Eye Irritancy:	Contact with the undiluted material may cause irritation.
Dermal Irritancy:	Contact with the undiluted material may cause irritation.
Skin Sensitization:	Not determined.
Mutagenicity:	Not determined.
Teratogenicity:	Not determined.

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12. ECOLOGICAL INFORMATION

Ecotoxicity:	Not determined.
Mobility:	Not determined.
Persistence and Degradability:	Not determined.
Bioaccumulation Potential:	Not determined.
Ozone Depleting Substances:	None.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:	This material, if discarded, is not considered a hazardous waste by EPA regulations 40 CFR 261.
Safe Handling of Wastes:	Refer to Section 8 for information pertaining to personal protective equipment and exposure controls when handling this material for disposal.
Community Provisions:	Dispose of this material at a local, state or federally approved landfill, incinerator or recovery facility.

14. TRANSPORT INFORMATION

Label Codes:	NONE
DOT Proper Shipping Name (Bulk):	NA1993, Combustible Liquid, n.o.s.(Pine Oil), PGIII
DOT Proper Shipping Name (Non-Bulk):	Chemicals n.o.i.(Pine Oil)
ERG:	128
Marine Pollutant:	No.

15. REGULATORY INFORMATION

Chemical Inventories Status:	
USA (TSCA):	Compliant
European Community (EINECS):	Compliant
Canada (DSL):	Compliant
Australia (AICS):	Compliant
Japan (IEC):	Not Compliant
Korea (KECI/ECL):	Compliant
Philippines (PICCS):	Compliant
China (SEPA/CICS):	Compliant
USA: Federal:	
SARA Title III Section 302/304:	None.
SARA Title III Section 311/312:	Yes.
SARA Title III Section 313:	None.
Hazardous Air Pollutants:	None.

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USA: States:

New Jersey RTK: Pine oil; CAS No. 8002-09-3; 95%.
 New Jersey RTK: Hydrocarbons, terpene processing by-products;
 CAS 68956-56-9; 5%.

International:

Canada; Pine Oil Fractions have been known to contain Myrcene (CAS# 123-35-3), p-Cymene (CAS# 99-87-6), Limonene (CAS# 138-86-3), and/or alpha-Fenchol (CAS# 512-13-0).

16. OTHER INFORMATION

EU Classifications:

Symbol Code(s): Xi	Symbol Phrase(s): IRRITANT
Risk Phrase Codes: R36/38	Risk Phrases: Irritating to eyes and skin.

Safety Phrase Codes: S24/25	Safety Phrases: Avoid contact with eyes and skin.
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U.S. NPCA/HMIS Hazardous Materials Information System

Health	Flammability	Reactivity	Personal Protection*
1	2	1	C

- 0 - Minimal Hazard: No significant risk to health.
 - 1 - Slight Hazard: Irritation or minor reversible injury possible.
 - 2 - Moderate Hazard: Temporary or minor injury may occur.
 - 3 - Serious Hazard: Major injury likely unless prompt action is taken and medical treatment is given.
 - 4 - Severe Hazard: Life-threatening, major or permanent damage may result from single or repeated exposures.
- * This rating will generally suffice for normal operating conditions. Please note however, that the type of personal protection utilized may change based on specific use conditions (refer to Section 8).

Reason(s) for (Re)issue:

Changed EC classifications and HMIS ratings; format change.

Technical Contact(s):

Environmental and Regulatory Affairs Dept.

References:

RIFM - Research Institute for Fragrance Materials RTECS- Registry of Toxic Effects of Chemical Substances

Acronyms:

NTP(National Toxicology Program); IARC (International Agency for Research on Cancer); OSHA (Occupational Health and Safety Administration); DOT (U.S. Dept. of Transportation); NIOSH (National Institute of Occupational Safety and Health)

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