

# lyondellbasell

I I III II

## Material Safety Data Sheet

Product Code 20B10AS  
Revision Date 05/31/2007  
Supersedes 07/20/2005  
Date Printed 05/11/2010

### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

**Identification of the Substance:**

**Trade Name:** PINE OIL 150

**Chemical Name:** OILS, PINE

**Use of the Substance:** Cleaner ingredient

**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	100.00

**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

The information contained in this MSDS relates to this specific product. The information may not be valid if the product is used in combination with any other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use.

# lyondellbasell

I I III II

## Material Safety Data Sheet

Product Code 20B10AS  
Revision Date 05/31/2007  
Supersedes 07/20/2005  
Date Printed 05/11/2010

### Inhalation:

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

### Eye Contact:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

### Skin Contact:

Take off contaminated clothing. Immediately rinse skin with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

### Ingestion:

Immediately call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

### 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.

# Material Safety Data Sheet

Product Code 20B10AS  
Revision Date 05/31/2007  
Supersedes 07/20/2005  
Date Printed 05/11/2010

## Environmental Precautions:

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge.

Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or regional office of the EPA..

## 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.

### Storage:

Do not contaminate water, food or feed by storage or disposal. Store in a well ventilated area.

### 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:

Wear protective clothing including long sleeves and rubber gloves to prevent prolonged or repeated skin contact.

#### Personal Hygiene:

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information:

<u>Property</u>	<u>Result</u>
Appearance:	Clear, nearly colorless liquid.
Odor:	Pine-type.

### Important Health, Safety and Environmental Information:

<u>Property</u>	<u>Result</u>
pH:	Not determined.
Boiling Point:	383F (195C) (Distillation)
Flash Point:	167F (75C) (Tag Closed Cup)
Melting Point:	Not determined.
Flammability:	Not determined.
Explosive Properties:	Not an explosive.
Oxidizing Properties:	Not determined.
Vapor Pressure:	ca. 1 mmHg @ 25 C
Solubility in Water (Weight%):	1-2
Solubility in Alcohol(Weight%):	10
Fat Solubility:	Not determined.
Partition Coefficient (n-Octanol/Water):	Not determined.
Viscosity:	Not determined.
Vapor Density (air=1):	>1
Evaporation Rate (Butyl Acetate=1):	Not determined.
Autoignition Temperature:	Not determined.
Specific Gravity:	0.930 @15.5 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 hydrocarbons and alcohols.

### Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, acrid fumes.

## 11. TOXICOLOGICAL INFORMATION

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

# Material Safety Data Sheet

Product Code 20B10AS  
 Revision Date 05/31/2007  
 Supersedes 07/20/2005  
 Date Printed 05/11/2010

**Acute Toxicity:**

<u>Parameter</u>	<u>Result</u>
Acute Oral Toxicity:	LD50 (rat): 2760 mg/kg.
Acute Inhalation Toxicity:	Not determined.
Acute Dermal Toxicity:	Not determined
Eye Irritancy:	Material is a primary eye irritant.
Dermal Irritancy:	Material is a primary skin irritant (Irritation Index = 5.1).
Skin Sensitization:	Not determined.
Mutagenicity:	Not determined
Teratogenicity:	Not determined.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:	TOXIC TO FISH AND AQUATIC ORGANISMS.
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 in accordance with local and State regulations.
Disposal of Containers:	Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

## 14. TRANSPORT INFORMATION

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

The information contained in this MSDS relates to this specific product. The information may not be valid if the product is used in combination with any other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use.

**Material Safety Data Sheet**

Product Code 20B10AS  
 Revision Date 05/31/2007  
 Supersedes 07/20/2005  
 Date Printed 05/11/2010

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.

**USA: States:**

New Jersey RTK: Pine oil; CAS No. 8002-09-3; 100%.

**International:**

NOT DETERMINED

**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.

**U.S. NPCA/HMIS Hazardous Materials Information System**

<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Personal Protection*</b>
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; new format.

**Technical Contact(s):**

Environmental and Regulatory Affairs Dept.

**References:**

U.S. Federal Insecticide, Fungicide and Rodenticide Act

The information contained in this MSDS relates to this specific product. The information may not be valid if the product is used in combination with any other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use.

## **Material Safety Data Sheet**

Product Code	20B10AS
Revision Date	05/31/2007
Supersedes	07/20/2005
Date Printed	05/11/2010

**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)