



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

<b>Product number</b>	0027
<b>Product name</b>	<b>ALP Screen Opener</b>
<b>Effective date</b>	14-Mar-2015
<b>Company information</b>	Allopar LLC Usa. 1000 Columbia Avenue Lancaster PA-17603
<b>Company Email</b>	info@allopar.com
<b>Emergency telephone US</b>	717-982-2222
<b>Emergency telephone outside US</b>	717-982-2342
<b>Version #</b>	12
<b>Supersedes date</b>	01-Jul-2015

### 2. Hazards Identification

<b>Emergency overview</b>	FLAMMABLE Aerosol. CONTENTS UNDER PRESSURE. Harmful in contact with eyes. Irritating to skin. Irritating to respiratory system.
<b>Potential health effects</b>	
<b>Routes of exposure</b>	Eye contact. Skin contact. Ingestion.
<b>Eyes</b>	Contact may irritate or burn eyes.
<b>Skin</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Irritating to skin.
<b>Inhalation</b>	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful.
<b>Ingestion</b>	Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.
<b>Target organs</b>	Central nervous system. Lungs.
<b>Chronic effects</b>	Unconsciousness. Conjunctiva. Cyanosis (blue tissue condition, nails, lips, and/or skin). May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause delayed lung injury.
<b>Signs and symptoms</b>	Discomfort in the chest. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Coughing. Jaundice. Conjunctivitis. Defatting of the skin. Skin irritation.

### 3. Composition / Information on Ingredients

Components	CAS #	Percent
n-Butane	106-97-8	20- 30
Cyclohexanone	108-94-1	15- 20
1,2,4-Trimethyl Benzene	95-63-6	15- 20
Propane	74-98-6	8 - 10
Xylene	1330-20-7	1 - 3
Non-hazardous and other components below reportable levels		20- 40

#### 4. First Aid Measures

##### First aid procedures

##### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

##### Skin contact

Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops and persists.

##### Inhalation

Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

##### Ingestion

Call a physician immediately. Do not induce vomiting without advice from poison control center.

##### Notes to physician

Symptoms may be delayed.

#### 5. Fire Fighting Measures

##### Flammable properties

Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

##### Extinguishing media

##### Suitable extinguishing media

Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Do not use water jet.

##### Protection of firefighters

##### Protective equipment and precautions for firefighters

In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

#### 6. Accidental Release Measures

##### Methods for containment

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.

##### Methods for cleaning up

Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

#### 7. Handling and Storage

##### Handling

Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid prolonged exposure.

##### Storage

Contents under pressure. Do not puncture, incinerate or crush. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 3 Aerosol.

## 8. Exposure Controls / Personal Protection

### Exposure limits

#### ACGIH

Components	CAS #	TWA	STEL	Ceiling
n-Butane	106-97-8	1000 ppm	Not established	Not established
Cyclohexanone	108-94-1	20 ppm	50 ppm	Not established
1,2,4-Trimethyl Benzene	95-63-6	25 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Xylene	1330-20-7	100 ppm	150 ppm	Not established

#### OSHA

Components	CAS #	TWA	STEL	Ceiling
Cyclohexanone	108-94-1	50 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Xylene	1330-20-7	100 ppm	Not established	Not established

### Personal protective equipment

<b>Eye / face protection</b>	Do not get in eyes. Chemical goggles are recommended.
<b>Skin protection</b>	Wear appropriate chemical resistant clothing. Chemical resistant gloves.
<b>Respiratory protection</b>	Wear positive pressure self-contained breathing apparatus (SCBA). If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Compressed liquefied gas.
<b>Boiling point</b>	186.8 °F (86.1 °C) estimated
<b>Color</b>	Colorless.
<b>Density</b>	0.7455 g/cm <sup>3</sup> estimated
<b>Flammability (HOC)</b>	43.1279 kJ/g estimated
<b>Flash back</b>	Yes
<b>Flash point</b>	-156 °F (-104.4 °C) Propellant
<b>Form</b>	Aerosol.
<b>Freezing point</b>	Not available
<b>Odor</b>	Characteristic.
<b>pH</b>	Not applicable
<b>Physical state</b>	Liquid.
<b>Pressure</b>	50 - 65 psig @ 70F
<b>Solubility</b>	None
<b>Specific gravity</b>	0.7456 estimated

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Risk of ignition. Material is stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Hazardous decomposition products</b>	Irritants. Toxic gas.

## 11. Toxicological Information

<b>Acute effects</b>	Acute LD50: 2473 mg/kg estimated, Rat, Dermal
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**Component analysis - LD50****Toxicology Data - Selected LD50s and LC50s**

1,2,4-Trimethyl Benzene	95-63-6	Inhalation LC50 Rat 18 g/m <sup>3</sup> 4 h; Oral LD50 Rat 3400 mg/kg; Dermal LD50 Rabbit >3160 mg/kg
Cyclohexanone	108-94-1	Inhalation LC50 Rat 10.7 mg/L 4 h; Inhalation LC50 Rat 8000 ppm 4 h; Oral LD50 Rat 800 mg/kg; Dermal LD50 Rabbit 948 mg/kg
n-Butane	106-97-8	Inhalation LC50 Rat 658 mg/L 4 h
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h
Xylene	1330-20-7	Inhalation LC50 Rat 5000 ppm 4 h; Inhalation LC50 Rat 47635 mg/L 4 h; Oral LD50 Rat 4300 mg/kg; Dermal LD50 Rabbit >1700 mg/kg

**Sensitization**

Not expected to be hazardous by OSHA criteria.

**Reproductive effects**

Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.

**Teratogenicity**

Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Not expected to be hazardous by OSHA criteria.

<b>12. Ecological Information</b>
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**Ecotoxicity**

LC50 17.16 mg/L estimated, Fish, 96.00 Hours,  
 EC50 10.84 mg/L estimated, Daphnia, 48.00 Hours,  
 IC50 392 mg/L estimated, Algae, 72.00 Hours,  
 Components of this product are hazardous to aquatic life.

<b>13. Disposal Considerations</b>
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**Waste codes**

D001: Waste Flammable material with a flash point <140 F

**Disposal instructions**

Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

## 14. Transport Information

### Department of Transportation (DOT) Requirements

#### Basic shipping requirements:

<b>Proper shipping name</b>	Consumer commodity
<b>Hazard class</b>	ORM-D
<b>Subsidiary hazard class</b>	None
<b>Additional information:</b>	
<b>Packaging exceptions</b>	156, 306
<b>Packaging non bulk</b>	156, 306
<b>Packaging bulk</b>	None

### IMDG

#### Basic shipping requirements:

<b>Proper shipping name</b>	AEROSOLS
<b>Hazard class</b>	2.1
<b>UN number</b>	1950
<b>Additional information:</b>	
<b>Packaging exceptions</b>	LTD QTY
<b>Item</b>	5F
<b>Labels required</b>	None
<b>Transport Category</b>	2



### IATA

#### Basic shipping requirements:

<b>Proper shipping name</b>	Aerosols, flammable
<b>Hazard class</b>	2.1
<b>UN number</b>	1950
<b>Additional information:</b>	
<b>Packaging exceptions</b>	LTD QTY
<b>Labels required</b>	2.1



## 15. Regulatory Information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

1,2,4-Trimethyl Benzene	95-63-6	1.0 % de minimis concentration
Xylene	1330-20-7	1.0 % de minimis concentration

### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** Yes

### CERCLA (Superfund) reportable quantity

Cyclohexanone: 5000.0000  
Xylene: 100.0000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Hazard categories (311/312)** Immediate Hazard - Yes

Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - Yes  
 Reactivity Hazard - No

#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
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)	Yes
Korea	Existing Chemicals List (ECL)	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)

#### State regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

1,2,4-Trimethyl Benzene	95-63-6	Environmental hazard
Cyclohexanone	108-94-1	Environmental hazard
n-Butane	106-97-8	Present
Propane	74-98-6	Present
Xylene	1330-20-7	Environmental hazard

## 16. Other Information

#### Further information

HMIS® is a registered trade and service mark of the NPCA.

#### HMIS® ratings

Health: 1\*

Flammability: 4

Physical hazard: 0

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.

#### MSDS sections updated

This document has undergone significant changes and should be reviewed in its entirety.

#### Prepared by

Regulatory Compliance