Ausbond®
深圳市奥斯邦股份有限公司
Shenzhen Ausbond Co.,Ltd
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MATERIAL SAFETY DATA SHEET

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ausbond ® 66 Flame-retardant Precision Electronic Detergent
Manufacturer: Shenzhen Ausbond Co.,Ltd
Address: No.4,Xinwuyuanxin Village,Gushu Subway Station,Xixiang Town, Baoan District, Shenzhen,China
Telephone: +86-0755-33858818
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Internet: www.ausbond.com
Prepared by: Technical Department

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content %
Decafluoropentane (HFC-43-10mee)	138495-42-8	50 – 80
Carbon dioxide	124-38-9	2 – 6

3. HAZARDOUS IDENTIFICATION

Emergency Overview

Appearance & Odor: Colorless volatile liquid with ethereal and faint sweetish odor

WARNING

Vapor harmful. Eye irritant. Contents under pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: Irritant. Liquid contact will irritate and may cause conjunctivitis.

SKIN: Prolonged and/or repeated contact with material can cause irritation and defatting of the skin.

INHALATION:

Overexposure to vapor may cause dizziness, loss of concentration and irritation. With high exposure levels, effects can include central nervous system (CNS) depression and cardiac arrhythmia. Product vapors displace air and can cause suffocation especially in a confined space.

INGESTION:

Discomfort due to volatility would be expected. Some of the inhalation effects could be expected.

CHRONIC EFFECTS: None identified**.**

TARGET ORGANS: None identified.

Medical Conditions Aggravated by Exposure:

Pre-existing respiratory or cardiac conditions could be worsened by exposure to vapors.

4. FIRST AID MEASURES

Eye Contact:

Immediately flush with plenty of water for 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get medical attention.

Skin Contact:

Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation:

MATERIAL SAFETY DATA SHEET

Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Do NOT give epinephrine (adrenaline). Call a physician.

Ingestion:
Do NOT induce vomiting unless instructed to do so by a physician. Do NOT give stimulants. Get medical attention immediately.

Note to Physicians:
Because of possible disturbances of cardiac rhythm, catecholamine drugs such as epinephrine should be used with special caution and only in situations of emergency life support. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions.

5. FIRE FIGHTING MEASURES

Flammable Properties:
This product is nonflammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).

Suitable Extinguishing Media:
Choose an extinguishing agent appropriate for the surrounding fire.

Products of Combustion:
Product will decompose at temperatures above 482 F. Decomposition products include hydrochloric acid, hydrofluoric acid and carbonyl halides, such as phosgene.

Protection of Fire-Fighters:
Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

6.ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions:
Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up:
Dike area to contain spill. Eliminate all ignition sources. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection and other personal protective equipment. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

7. HANDLING AND STORAGE

Handling Procedures: Minimize vapor accumulation by providing air circulation. Wear eye protection.

Storage Procedures:
Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 ℉ to prevent cans from rupturing.

Aerosol Storage Level: I

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL SAFETY DATA SHEET

Engineering Controls:
Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection:
None required for normal work where adequate ventilation is provided. Use a NIOSH-approved cartridge respirator with organic vapor cartridge if vapors exceed exposure limits. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection:
For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection:
Use protective gloves such as MYLAR(R) coated Durafab, PVA or neoprene. Also , use full protective clothing if there is prolonged or repeated contact of liquid with skin.

9. PHYSICAL PROPERTIES

Appearance:	AMBER LIQUID	Odour:	PLEASANT ODOUR
Specific Gravity:	0.75	pH:	NOT AVAILABLE
Volatiles	70 %	Flammability :	COMBUSTIBLE
Flash Point:	76℃	Melting Point :	NOT AVAILABLE
Boiling Point :	104 C (Initial)	Lower Explosion Limit: 1.1 %	

Autoignition Temperature :> 550℃

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid:
Avoid sources of ignition. Ignition / flash may result if concentration is in the flammable range (See Section 5). At all concentration ranges, exposure of this product to high energy sources may yield toxic and/or corrosive decomposition products.

Incompatible Materials:
Strong acids and alkalis, reactive metals such as powdered or freshly abraded aluminum, sodium, potassium, calcium, magnesium, zinc, molten aluminum, barium and lithium shavings. Strong oxidizing agents.

Hazardous Decomposition Products:
Hydrochloric and hydrofluoric acids; and carbonyl halides, such as phosgene.

Possibility of Hazardous Reactions: No

11. TOXICOLOGICAL INFORMATION

Acute toxicity:
LD/LC50 values that are relevant for classification: no data available.

Primary irritant effect:
on the skin: Frequent and/ or presistent contact with skin may cause skin irritation.
on the eye: Irritant effect.
Sensitization: Sensitization possible by skin contact.

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MATERIAL SAFETY DATA SHEET

Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:Irritant

12. ECOLOGICAL INFORMATION

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: 1,1-dichloro-1-fluoroethane – daphnia and fish: 31.2 mg/L – 126 mg/L
algae: not toxic up to 44 mg/L

Persistence / Degradability: minimal biodegradability

Bioaccumulation / Accumulation: No data

Mobility in Environment: No data

13. DISPOSAL CONSIDERATIONS

Disposal:

The dispensed liquid product is not a hazardous waste if it is unused. Spent liquid, when used as a solvent, is a hazardous waste with a waste code of F001 (See 40 CFR Part 261.20 – 261.33) Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled.
All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

14. TRANSPORT INFORMATION

Proper shipping description:

US DOT (ground): Aerosols, non-flammable, 2.2, UN1950

Special Provisions: Can be shipped as a limited quantity.

15. REGULATORY INFORMATION

SARA SECTION 302:

SARA (311,312) HAZARD CLASS:

SARA (313) CHEMICALS: TOLUENE, METHYL ETHYL KETONE

CERCLA: TOLUENE; 1000lbs., MEK; 5000lbs.

CPSC CLASSIFICATION:

HMIS:	FLAMMABILITY:	3	REACTIVITY:	0	HEALTH:	3
NFPA:	FLAMMABILITY:	3	REACTIVITY:	0	HEALTH:	3

16. OTHER INFORMATION

The information in this material safety data sheet is obtained from related documents and test analysis of Ausbond Company, it is recommended that user shall take test and analysis by reference to the data in this document before using, and decide whether it is applicable.Ausbond Company will not warrant for any problem of the product that may occur during use, application and treatment, and not be liable for it.