

## Safety Data Sheet

### 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: BL SILVER COAT Primer hardner

Product code(SDS NO): 20160622001\_E1-1

Relevant identified uses of the substance or mixture and uses advised against

Uses advised against: Paint(hardner)

Details of the supplier of the safety data sheet

Manufacturer/Supplier: PRESENCE Co., Ltd.

Address: 4-18-1 Minamikase Saiwaiku Kawasaki Kanagawa 2120055 JAPAN

Division: Research and Development

Telephone number: +81-44-587-3139

FAX: +81-44-580-3431

e-mail address: info@badland.net

Emergency telephone number (24h): +81-44-587-3139

### 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

PHYSICAL HAZARDS

Flammable liquids: Category 2

HEALTH HAZARDS

Specific target organ toxicity - single exposure: Narcosis Category 3

Label elements



Signal word: Danger

HAZARD STATEMENT

H225 Highly flammable liquid and vapor

H336 May cause drowsiness or dizziness

PRECAUTIONARY STATEMENT

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves and face protection.

Response

P370 + P378 In case of fire: Use appropriate media other than water for extinction.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Storage

P403 Store in a well-ventilated place. P233 Keep container tightly closed. P235 Keep cool.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

Physical and Chemical hazards



Highly flammable liquid. Vapor/air mixture may explode.

### 3. Composition/information on ingredients

Substance/Mixture:

Mixture

Ingredient name	Content(%)	CAS No.	PRTR law No, Japan
Polyisocyanate	55 - 65	-	-
Butyl acetate	35 - 45	123-86-4	-
Hexamethylene Diisocyanate	< 1	822-06-0	-
Isophorone diisocyanate	< 1	4098-71-9	-

Note : The figures shown above are not the specifications of the product.

### 4. First-aid measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

### 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use foam, dry powder, CO2.

### 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear an air-supplied respirator for a poor/non ventilated spill.

Wear proper protective equipment.

Eliminate all sources of ignition and ventilate the area.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

### 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/gas/mist/vapors/spray.

(Protective measures against fire & explosion)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Safety Measures/Incompatibility

Use only outdoors or in a well-ventilated area.

Wear protective gloves and face protection.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

### 8. Exposure controls/personal protection

Control parameters



## Adopted value

(Butyl acetate)

ACGIH(2015) TWA: 50ppm

STEL: 150ppm (Eye &amp; URT irr)

(Isophorone diisocyanate)

ACGIH(1985) TWA: 0.005ppm (Resp sens)

(Hexamethylene Diisocyanate)

ACGIH(1985) TWA: 0.005ppm (URT irr; resp sens)

## Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

**9. Physical and Chemical Properties**

Information on basic physical and chemical properties

Physical properties

Appearance: Liquid

Phase change temperature

Initial Boiling Point/Boiling point: 126°C

Flash point: (Butyl acetate)22°C

Auto-ignition temperature: 420°C

Explosive properties: Flammability or explosive limit

lower limit: 1.2vol %

upper limit: 7.6vol %

**10. Stability and Reactivity**

Chemical stability

Stable under normal storage/handling conditions.

**11. Toxicological Information**

Information on toxicological effects

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

No Carcinogenic effects data available

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

**12. Ecological Information**

Toxicity

No Aquatic toxicity data available

Water solubility

(Butyl acetate)

0.7 g/100 ml (20 C) (ICSC, 2003)

(Isophorone diisocyanate)

reaction (ICSC, 2008)

(Hexamethylene Diisocyanate)

0.0117 g/100 ml (PHYSROP Database, 2005)

Persistence and degradability

(Isophorone diisocyanate)

OECD test guide line 301E\_Degradation/28days under aerobic sewer : 62% (CERI hazard data, 2002)

(Butyl acetate)

Degradate rapidly (BOD\_Degradation : 98% (SIDS, 2009))



Bioaccumulative potential  
(Hexamethylene Diisocyanate)  
log Pow=1.08 (ICSC, 1993)  
(Isophorone diisocyanate)  
log Pow=4.75 (calculated) (ICSC, 2008)  
(Butyl acetate)  
log Pow=1.78 (PHYSPROP Database, 2009)  
No Mobility in soil data available  
Ozone depleting chemical data not available

### 13. Disposal considerations

Waste treatment methods  
Dispose of contents/container in accordance with local/national regulation.

### 14. Transport Information

UN No, UN CLASS  
UN number: 1263  
UN proper shipping name:  
PAINT or PAINT RELATED MATERIAL  
Transport hazard class(es): 3  
Packing group: II  
ERG GUIDE NO.: 128  
Special provisions NO.: 163; 367; A3; A72; A192  
Transport in bulk according to Annex II of MARPOL73/78 and IBC Code  
Noxious Liquid ; Cat. X  
Isophorone diisocyanate  
Noxious Liquid ; Cat. Y  
Hexamethylene Diisocyanate; Butyl acetate

### 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture  
Poisonous and Deleterious Substances Control Law, Japan  
Deleterious Substances (Article 2)  
Hexamethylene Diisocyanate(0.38%)(The decree number 91-2)  
Industrial Safety and Health Act, Japan  
Organic Solvents Class II  
Butyl acetate  
Chemical Substances requiring Labeling and Deliver of Documents, etc.  
Labeling, etc.  
Butyl acetate  
Report required substances  
Isophorone diisocyanate; Butyl acetate; Hexamethylene Diisocyanate  
Appended Table 1 Dangerous Substances (related to Article 1, 6, and 15)  
Flammable ( $0^{\circ}\text{C} \leq \text{FP} < 30^{\circ}\text{C}$ )  
The product is not applicable to Pollution Release and Transfer Register (PRTR) law, Japan  
Fire Service Act, Japan  
Petroleum Gr.2, (Class III)  
Chemical Substances Control Law, Japan  
Priority Assessment Chemical Substances (PACSS)  
Hexamethylene Diisocyanate  
Air Pollution Control Law, Japan  
Hazardous air pollutants  
Isophorone diisocyanate; Hexamethylene Diisocyanate  
Ship Safety Act  
Class 3 : Flammable liquids  
Civil Aeronautics Act  
Class 3 : Flammable liquids



## 16. Other information

### GHS classification and labelling

Flam. Liq. 2: H225 Highly flammable liquid and vapor

STOT SE 3: H336 May cause drowsiness or dizziness

### Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 18th edit., 2013 UN

Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)

2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2016 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

### General Disclaimer

To the best of our knowledge, the information contained here in is accurate. However, we assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of user. All material may present unknown hazards and should be used in caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist.

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.