

## Safety Data Sheet

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

Product identifier:

Product name: BL SILVER COAT Top Clear hardner

Product code(SDS NO): 20150909002\_E2-1

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

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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

Skin corrosion/irritation: Category 2

Specific target organ toxicity - repeated exposure: Category 2

Aspiration hazard: Category 1

Label elements



Signal word: Danger

HAZARD STATEMENT

H225 Highly flammable liquid and vapor

H315 Causes skin irritation

H373 May cause damage to organs through prolonged or repeated exposure

H304 May be fatal if swallowed and enters airways

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.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash contaminated parts thoroughly after handling.

P280 Wear protective gloves.

P280 Wear protective gloves and face protection.

Response

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

P314 Get medical advice/attention if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

P332 + P313 If skin irritation occurs: Get medical advice/attention.



P362 + P364 Take off contaminated clothing and wash it before reuse.

P331 Do NOT induce vomiting.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

#### Storage

P403 Store in a well-ventilated place. 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
Xylene	1 - 20	1330-20-7	-
Ethylbenzene	1 - 20	100-41-4	-
Butyl acetate	1 - 20	123-86-4	-
Hexamethylene Diisocyanate	< 1	822-06-0	-

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

### 4. First-aid measures

Descriptions of first-aid measures

IF ON SKIN (or hair)

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

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF SWALLOWED

Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor/physician.

### 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use foam, dry powder, CO<sub>2</sub>.

### 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

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)

Do not breathe 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

Wear protective gloves.

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

(Ethylbenzene)

ACGIH(2010) TWA: 20ppm (URT irr; kidney dam; nephropathy; cochlear impair)

(Butyl acetate)

ACGIH(1995) TWA: (150ppm)

STEL: (200ppm) (Eye & URT irr)

(Xylene)

ACGIH(1992) TWA: 100ppm

STEL: 150ppm (URT & eye irr; CNS impair)

(Hexamethylene Diisocyanate)

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

Safety and Health measures

Wash ... thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

## 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: (Ethylbenzene)18°C

Auto-ignition temperature: 420°C

Explosive properties: Flammability or explosive limit

lower limit: 1vol %

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

Carcinogenicity

(Ethylbenzene)

IARC-Gr.2B : Possibly carcinogenic to humans

(Xylene)

IARC-Gr.3 : Not Classifiable as a Human Carcinogen

(Ethylbenzene)

ACGIH-A3(2010) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

(Xylene)

ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen

No Teratogenic effects data available

No reproductive toxicity data available

Delayed and immediate effects and also chronic effects from short- and long-term exposure

STOT

STOT-repeated exposure

[cat.2]

[EU CLP name of STOT]

(Ethylbenzene) hearing organs

No Aspiration hazard data available

## 12. Ecological Information

**Toxicity**

No Aquatic toxicity data available

**Water solubility**

(Ethylbenzene)

0.015 g/100 ml (20 C) (ICSC, 2007)

(Butyl acetate)

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

(Hexamethylene Diisocyanate)

0.0117 g/100 ml (PHYSPROP Database, 2005)

**Persistence and degradability**

(Ethylbenzene)

Easily degrade and rapidly vaporize (SIDS, 2005)

(Butyl acetate)

BOD\_Degradation : 98% (IUCLID, 2000)

(Xylene)

BOD\_Degradation : 39% (CERI hazard data book,2005)

**Bioaccumulative potential**

(Hexamethylene Diisocyanate)

log Pow=1.08 (ICSC, 1993)

(Ethylbenzene)

log Kow=3.15 (PHYSPROP Database, 2005)

(Butyl acetate)

log Pow=1.78 (PHYSPROP Database, 2005)

(Xylene)

log Pow=3.16 (PHYSPROP Database, 2005)

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. Y

Hexamethylene Diisocyanate; Ethylbenzene; Butyl acetate; Xylene

**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(0.2%)(法令番号91の2)

Industrial Safety and Health Act, Japan

Specified chemicals Gr.2 Specific organic solvents

Ethylbenzene

Organic Solvents Class II

Xylene; Butyl acetate

Organic Solvents Class II (Article 25)

Labeling, etc. (Article 18 of the Cabinet Order)

Ethylbenzene; Xylene; Butyl acetate

Appended Table 1 Dangerous Substances (related to Article 1, 6, and 15)

Flammable (0°C ≤ FP < 30°C)



Deliver of Documents, etc. (Article 18-2, attached table 9)  
Ethylbenzene; Xylene; Butyl acetate; Hexamethylene Diisocyanate  
PRTR law, Japan  
Listed chemicals Gr.1  
Ethylbenzene(13.6%); Xylene(13.7%)  
Fire Service Act, Japan  
Petroleum Gr.1, (Class II)  
Chemical Substances Control Law, Japan  
Priority Assessment Chemical Substances (PACSs)  
Hexamethylene Diisocyanate; Ethylbenzene; Xylene  
Offensive Odor Control Law, Japan  
Xylene  
Air Pollution Control Law, Japan  
Hazardous air pollutants  
Ethylbenzene; Xylene; Hexamethylene Diisocyanate  
Ship Safety Act  
Class 3 : Flammable liquids  
Civil Aeronautics Act  
Class 3 : Flammable liquids  
Water Pollution Control Law, Japan  
Listed substance(s)  
Xylene(Decree number 28)

## 16. Other information

### GHS classification and labelling

Flam. Liq. 2: H225 Highly flammable liquid and vapor  
Skin Irrit. 2: H315 Causes skin irritation  
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure  
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways

### 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)  
2015 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 assume 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 is advised to make their own tests to determine 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.