

Safety Data Sheet



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

Product identifier:

Product name: ClearBOND+Plus (CB+Plus)

Product code: HB6681D, HB6681, HB6674

(SDS NO): Eb36_172_[US_CB+Plus_2022.7.14]

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

Relevant identified uses of the product: Primer

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

BHG IMPORT EXPORT INC.

715 N. CENTRAL AVE SUITE 213

GLENDALE CA 91203 USA

Tel: +1 818 546 1380 | fax: +1 818 546 1383

Web: bhg.us.com | hydraBOND.com

EMERGENCY MEDICAL & SPILL CONTROL:
24 Hrs Emergency Product Safety Department
Contract CHEMTREC# 628320
FOR USA AND CANADA: 1-800 424-9300
OUTSIDE USA AND CANADA: +1703-527-3887

2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Physical and chemical hazards

Flammable liquids: Category 2

HEALTH HAZARDS

Skin corrosion/irritation: Category 2

Reproductive toxicity: Category 2

Specific target organ toxicity – single exposure: Category 1

Specific target organ toxicity – single exposure: Narcosis Category 3

Specific target organ toxicity – repeated exposure: Category 2

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

2.2 Label elements

Signal word: Danger

HAZARD STATEMENT

H225 Highly flammable liquid and vapor

H315 Causes skin irritation

H361 Suspected of damaging fertility or the unborn child

H370 Causes damage to organs after single exposure

H336 May cause drowsiness or dizziness

H373 May cause damage to organs through prolonged or repeated exposure

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.

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

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



P264 Wash contaminated parts thoroughly after handling.

P280 Wear protective gloves.

P280 Wear protective gloves and face protection.

P280 Use personal protective equipment as required.

P270 Do not eat, drink or smoke when using this product.

Response

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

P314 Get medical advice/attention if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

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

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

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

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.

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

Mixture/Substance selection:

3.2 Mixture

Ingredient name	CAS No.	Content(%)
Toluene	108-88-3	40 – 50
Xylene (Mixture of isomers)	1330-20-7	20 – 30
Ethylbenzene	100-41-4	10 – 20
Ethyl acetate	141-78-6	1 – 10
Methyl ethyl ketone	78-93-3	1 – 10
Methanol	67-56-1	1 – 10

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

4. First-aid measures

4.1 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.

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear protective gloves/protective clothing/eye protection/face protection.

6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Evacuate area.

Keep unauthorized personnel away.

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.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into shower or waterway.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Cover with dry lime or soda ash. Place in a covered container.

7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

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

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

(Protective measures against fire and 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.

Exhaust/ventilator

Exhaust/ventilator should be available.

Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures/Incompatibility

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear protective gloves.

Wear protective gloves and face protection.

Use personal protective equipment as required.

7.2 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

8.1 Control parameters

Adopted value

(Ethylbenzene)

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

(Toluene)

ACGIH(2006) TWA: 20ppm (Visual impair; female repro; pregnancy loss)

(Xylene (Mixture of isomers))

ACGIH(1992) TWA: 100ppm

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

(Ethyl acetate)

ACGIH(1979) TWA: 400ppm (URT & eye irr)

(Methanol)

ACGIH(2008) TWA: 200ppm

STEL: 250ppm (Headache; eye dam; dizziness; nausea)

(Methyl ethyl ketone)

ACGIH(1992) TWA: 200ppm

STEL: 300ppm (URT irr; CNS & PNS impair)

Notation

(Methanol)

Skin

OSHA-PEL

(Toluene)

TWA 200ppm; STEL 300mg/m³

(Xylene (Mixture of isomers))

TWA 100ppm, 435mg/m³

(Ethyl acetate)

TWA 400ppm, 1400mg/m³

(Methanol)

TWA 200ppm, 260mg/m³

(Methyl ethyl ketone)

TWA 200ppm, 590mg/m³

(Ethylbenzene)

TWA 100ppm, 435mg/m³

NIOSH-REL

(Xylene (Mixture of isomers))

TWA 100ppm, 435mg/m³; STEL 150ppm, 655mg/m³

(Ethyl acetate)

TWA 400ppm, 1400mg/m³

(Methanol)

TWA 200ppm, 260mg/m³; STEL 250ppm, 325mg/m³

(Methyl ethyl ketone)

TWA 200ppm, 590mg/m³; STEL 300ppm, 885mg/m³

(Ethylbenzene)

TWA 100ppm, 435mg/m³; STEL 125ppm, 545mg/m³

(Toluene)

TWA 100ppm, 375mg/m³; STEL 150ppm, 560mg/m³

California proposition 65

cancer NSRL

(Ethylbenzene)

NSRL=(inhalation) 54g/day ; (oral) 41 μg/day

developmental MADL

(Toluene)

MADL=7000g/day

(Methanol)

MADL=(inhalation) 47000µg/day; (oral) 23000µg/day

8.2 Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Individual protection measures

Respiratory protection

Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Safety and Health measures

Wash. thoroughly after handling.

Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash it before reuse.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical properties

Appearance: Liquid

Color: Colorless

Phase change temperature

Initial Boiling Point/Boiling point: 65°C

Melting point/Freezing point: -98

Flash point: 15°C

Auto-ignition temperature: 427°C

Vapor pressure: 12.3kPa

VOC: 820.5g/liter

Specific gravity/Density: 0.86

Solubility

Solubility in water: Insoluble

10. Stability and Reactivity

10.2 Chemical stability

Stable under normal storage/handling conditions.

11. Toxicological Information

11.1 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

(Toluene)

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

(Xylene (Mixture of isomers))

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

(Ethylbenzene)

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

(Toluene)

ACGIH-A4(2006) : Not Classifiable as a Human Carcinogen

(Xylene (Mixture of isomers))

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

12.1 Ecotoxicity

No Aquatic toxicity data available

Water solubility

(Ethylbenzene)

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

(Toluene)

none (ICSC, 2002)

(Ethyl acetate)

8 g/100 ml (PHYSPROP Database, 2009)

(Methanol)

100 g/100 ml (PHYSPROP Database, 2009)

(Methyl ethyl ketone)

29 g/100 ml (20 C) (ICSC, 1998)

12.2 Persistence and degradability

(Ethylbenzene)

Not degrade rapidly (BOD_Degradation : 0% (MITI official bulletin, 1990))

(Toluene)

BOD_Degradation : 123% (Registered chemicals data check & review, Japan)

(Xylene (Mixture of isomers))

Not degrade rapidly (BOD_Degradation : 39% (NITE risk primary assessment, 2005))

(Methyl ethyl ketone)

Degrade rapidly (BOD_Degradation : 89%/20 days (SIDS, 2011))

12.3 Bioaccumulative potential

(Ethylbenzene)

log Kow=3.15 (PHYSPROP Database, 2005)

(Toluene)

log Kow=2.73 (PHYSPROP Database, 2008)

(Xylene (Mixture of isomers))

log Pow=3.16 (PHYSPROP Database, 2005)

(Ethyl acetate)

log Pow=0.73 (ICSC, 2014)

(Methanol)

log Pow=-0.82/-0.66 (ICSC, 2000)

(Methyl ethyl ketone)

log Pow=0.29 (ICSC, 1998)

No Mobility in soil data available

Ozone depleting chemical data not available

13. Disposal considerations

13.1 Waste treatment methods

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

14. Transport Information

UN No, UN CLASS

14.1 UN number: 1263

14.2 UN proper shipping name:

PAINT or PAINT RELATED MATERIAL

14.4 Packing group: II

ERG GUIDE NO.: 128

14.7 Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Noxious Liquid ; Cat. Y

Ethylbenzene; Xylene (Mixture of isomers); Toluene; Methanol

Noxious Liquid ; Cat. Z

Ethyl acetate; Methyl ethyl ketone

DOT

Quantity Limitation

On passenger aircraft/rail:5L

On cargo aircraft only :60L

Remarks

ORM-D49 CFR 173,150,156,306

ADR

Exceptedquantities(EQ)

Code:E

Maximum net quantity per inner packaging:30ml

Maximum net quantity per outer packaging:500ml

IMDG

Limited quantities(LQ)

5L

Excepted quantities(EQ)

Code:E2

Maximum net quantity per inner packaging:30ml

Maximum net quantity per outer packaging:500ml

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US major regulations

TSCA

Methyl ethyl ketone; Methanol; Ethylbenzene; Toluene; Ethyl acetate; Xylene (Mixture of isomers)

California proposition 65

cancer

Ethylbenzene

developmental

Toluene; Methanol

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

GHS classification and labeling

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

Skin Irrit. 2: H315 Causes skin irritation

Repr. 2: H361 Suspected of damaging fertility or the unborn child

STOT SE 1: H370 Causes damage to organs after single exposure

STOT SE 3: H336 May cause drowsiness or dizziness

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure

Reference Book

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

Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN

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

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2017 TLVs and BEIs. (ACGIH)

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

Supplier's data/information

Hazard Communication Standard – 2012

General Disclaimer

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.