

SAFETY DATA SHEET

CYBERBOND™ U305

Version 1.0

Revision Date 12/06/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CYBERBOND™ U305
Product code : 100000004794

Manufacturer or supplier's details

Company : H.B. Fuller Engineering Adhesives
Address : 9001 W Fey Drive
Frankfort, IL, 60423
Telephone : 1-815-464-5606

Medical Emergency Phone Number (24 Hours): 1-888-853-1758

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : UV Curable Adhesive
Restrictions on use : For industrial use only.



SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

| | |
|------------|-----------------------|
| Appearance | liquid |
| Color | Clear to light yellow |
| Odor | characteristic |

GHS Classification

Acute toxicity (Oral) : Category 4
Acute toxicity (Dermal) : Category 4
Skin irritation : Category 2
Serious eye damage : Category 1
Skin sensitization : Category 1
Reproductive toxicity : Category 1B
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements:

H302 + H312 Harmful if swallowed or in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory

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irritation. H360 May damage fertility or the unborn child.

Precautionary Statements:

Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.

Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Carcinogenicity:

| | |
|-------------|--|
| IARC | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| OSHA | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. |
| NTP | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

| Chemical name | CAS-No. | Concentration [%] |
|---|------------|-------------------|
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate | 5888-33-5 | 20 - 30 |
| N,N-dimethylacrylamide | 2680-03-7 | 10 - 20 |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | 1 - 5 |
| 2-hydroxy-2-methylpropiophenone | 7473-98-5 | 1 - 5 |

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Show this material safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Keep patient warm and at rest.

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| | Consult a physician after significant exposure. |
| In case of skin contact | : Wash off immediately with soap and plenty of water. Call a physician if irritation develops or persists. |
| In case of eye contact | : Rinse immediately with plenty of water, also under the eyelids. Seek medical advice. |
| If swallowed | : If swallowed, call a poison control center or doctor immediately. Do not induce vomiting without medical advice. |

SECTION 5. FIRE-FIGHTING MEASURES

- | | |
|--|---|
| Suitable extinguishing media | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | : Water spray jet |
| Hazardous combustion products | : No hazardous combustion products are known |
| Specific extinguishing methods | : |
| Further information | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for fire-fighters | : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. |
| Environmental precautions | : Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. |
| Methods and materials for containment and cleaning up | : Ventilate the area. Soak up with inert absorbent material. Clean contaminated surface thoroughly. |

SECTION 7. HANDLING AND STORAGE

- | | |
|-------------------------|---|
| Local/Total ventilation | : Use only with adequate ventilation. |
| Advice on safe handling | : Wear personal protective equipment. Keep container closed when not in use. Keep away from heat and flame. |

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Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in original container.

Materials to avoid : Do not store together with oxidizing and self-igniting products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapor type

Hand protection
Material : Neoprene gloves

Eye protection : Tightly fitting safety goggles
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : Long sleeved clothing
Preventive skin protection

Protective measures : Avoid contact with skin.

Hygiene measures : Avoid contact with skin, eyes and clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
 Color : Clear to light yellow
 Odor : characteristic
 Odor Threshold : No data available
 Melting point/freezing point : is not determined
 Boiling point/boiling range : is not determined
 Evaporation rate : is not determined
 Flammability (solid, gas) : Not classified as a flammability hazard

 Upper explosion limit : Upper flammability limit
 is not determined

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| | | |
|--|---|--|
| Lower explosion limit | : | Lower flammability limit is not determined |
| Density | : | 1.01 g/cm ³ |
| Solubility(ies) | : | |
| Water solubility | : | is not determined |
| Partition coefficient: n-octanol/water | : | No data available |
| Autoignition temperature | : | is not determined |
| Viscosity | : | |
| Viscosity, kinematic | : | is not determined |

SECTION 10. STABILITY AND REACTIVITY

| | | |
|----------------------------------|---|---|
| Chemical stability | : | The product is chemically stable. |
| Hazardous decomposition products | : | Stable under normal conditions. No hazardous decomposition products are known. |

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

| | | |
|-----------------------|---|--|
| Acute oral toxicity | : | Acute toxicity estimate : 520.83 mg/kg Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate : 1,579 mg/kg Method: Calculation method |

Components:

N,N-dimethylacrylamide:

| | | |
|---------------------------|---|---|
| Acute inhalation toxicity | : | LC50 Rat: > 776 ppm Exposure time: 1 h Test atmosphere: dust/mist |
|---------------------------|---|---|

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

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Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Do not dispose of together with household waste.
Do not dispose of waste into sewer.
To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more restrictive requirements.

SECTION 14. TRANSPORT INFORMATION

Special precautions for user

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Not applicable

Domestic regulation

49 CFR

Not regulated as a dangerous good

International Regulations

IATA-DGR

UN/ID No. : 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(ISOBORNYL ACRYLATE)
Class : 9
Packing group : III
Labels : 9
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964

IMDG-Code

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Respiratory or skin sensitization
Reproductive toxicity
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

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SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

US State Regulations

California Prop 65 Please contact Supplier for more information.

The ingredients of this product are reported in the following inventories:

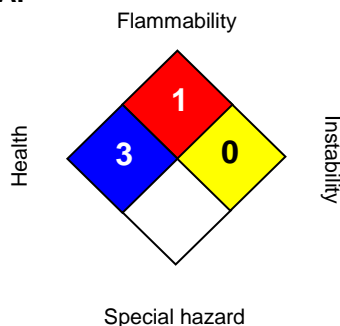
TSCA All substances listed as active on the TSCA inventory
ENCS On the inventory, or in compliance with the inventory
KECI On the inventory, or in compliance with the inventory
IECSC On the inventory, or in compliance with the inventory
Inventories Legend TSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

SECTION 16. OTHER INFORMATION

Prepared by: Global Regulatory Department - phone: 1-651-236-5842 - email: msds.request@hbfuller.com

Further information

NFPA:



HMIS III:

| | |
|------------------------|-----------|
| HEALTH | 3* |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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