

Printing date 06/04/2015

Safety Data Sheet

acc. to OSHA HCS

Reviewed on 06/04/2015

Page 1/7

1 Identification

- [•] Product identifier
- Trade name: LS 870
- · Application of the substance / the mixture Adhesives
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Cyberbond LLC
 401 North Raddant Road
 Batavia, IL 60510
 USA
 sales@cyberbond1.com
 630-761-8900
- Information department: Product safety department
 Emergency telephone number: International-1-(352)-323-3500
 US & Canada-1-(800)-535-5053

2 Hazard(s) identification

Classification of the substance or mixture



GHS02 Flame

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

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Highly flammable

Highly flammable.

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of international guidelines.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



Signal word Danger
Hazard statements
Highly flammable liquid and vapor.
Precautionary statements
If medical advice is needed, have product container or label at hand. Keep out of reach of children.
Read label before use.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Wear protective gloves / eye protection / face protection.
Ground/bond container and receiving equipment.
Keep container tightly closed.
Use only non-sparking tools.

Printing date 06/04/2015

Trade name: LS 870

Reviewed on 06/04/2015

(Contd. of page 1)

50-100%

Take precautionary measures against static discharge.

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

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- Other hazards
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

646-06-0 1,3-dioxolane

4 First-aid measures

[•] Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed Breathing difficulty
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- [•] Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions:

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling

Store in cool, dry place in tightly closed receptacles. Keep away from heat and direct sunlight.

Printing date 06/04/2015

Trade name: LS 870

Reviewed on 06/04/2015

(Contd. of page 2)

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:
- Store in a cool location. Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters

Components with limit values that require monitoring at the workplace:

- 646-06-0 1,3-dioxolane
- TLV Long-term value: 61 mg/m³, 20 ppm
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not necessary if room is well-ventilated.
- Protection of hands:
- Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves Nitrile rubber, NBR
- Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Not suitable are gloves made of the following materials:
- Cotton or natural fibers PVC gloves
- Eye protection:

Safety glasses



Tightly sealed goggles

- · Body protection: Protective work clothing
- 9 Physical and chemical properties
- Information on basic physical and chemical properties
- General Information

· Appearance:	
Form:	Liquid
Color:	Opaque
· Odor:	Ether-like
· Odour threshold:	Not determined.
[·] pH-value:	Not determined.

Printing date 06/04/2015

Trade name: LS 870

Reviewed on 06/04/2015

(Contd. of page 3)

 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 75 °C (167 °F)
· Flash point:	-6 °C (21 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	274 °C (525 °F)
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure at 20 °C (68 °F):	133 hPa (100 mm Hg)
 Density: Relative density Vapour density Evaporation rate 	Not determined. Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
 Solvent content: Organic solvents: 	0.0 %
Solids content: Other information	20.0 % No further relevant information available.
10 Stability and reactivity	

[·] Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

(Contd. on page 5)

Trade name: LS 870

Reviewed on 06/04/2015

(Contd. of page 4)

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- [•] Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- [•] Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

UN1866

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · UN-Number
- DOT, IMDG, IATA
- [•] UN proper shipping name
- · DOT
- · IMDG, IATA
- Transport hazard class(es)

Resin solution **RESIN SOLUTION**

· DOT



· Class 3 Flammable liquids Label 3 IMDG, IATA



Printing date 06/04/2015

Trade name: LS 870

Reviewed on 06/04/2015

Trade name: LS 870		
	(Contd. of page 5)	
Label	3	
Packing group		
· DOT, IMĎG, IATA	II	
• Environmental hazards:		
[·] Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
· Danger code (Kemler): · EMS Number:	33	
Transport in bulk according to Annex II o	F-E, <u>S-E</u> ∙ f	
MARPOL73/78 and the IBC Code	Not applicable.	
[•] Transport/Additional information:		
DOT		
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L	
·IMDG		
 Limited quantities (LQ) 	1L	
 Excepted quantities (EQ) 	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
UN "Model Regulation":	Maximum net quantity per outer packaging: 500 ml UN1866, Resin solution, 3, II	
15 Regulatory information		
 Safety, health and environmental regulat Sara 	ions/legislation specific for the substance or mixture	
Section 355 (extremely hazardous substances):		
None of the ingredients is listed.		
Section 313 (Specific toxic chemical listings):		
None of the ingredients is listed.		
TSCA (Toxic Substances Control Act):		
646-06-0 1,3-dioxolane		
Proposition 65		
Chemicals known to cause cancer:		
None of the ingredients is listed.		
Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
Chemicals known to cause developmental toxicity:		
None of the ingredients is listed.		
· Carcinogenic categories		
• EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
• TLV (Threshold Limit Value established by ACGIH)		
None of the ingredients is listed.		
• NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 7)		

Printing date 06/04/2015

Trade name: LS 870

Reviewed on 06/04/2015

(Contd. of page 6)





· Signal word Danger Hazard statements Highly flammable liquid and vapor. **Precautionary statements** If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves / eye protection / face protection. Ground/bond container and receiving equipment. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product Safety Department
- Date of preparation / last revision 06/04/2015 / 1

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) Flam. Liq. 2: Flammable liquids, Hazard Category 2

* * Data compared to the previous version altered.