1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name	:	Hanex Acrylic Joint Adhesive (Component B)
Supplier	:	HYUNDAI L&C
		7F,Center 1building, 26, Eulji-ro 5-gil , Jung-gu, Seoul,04539, Korea
Telephone	:	+82-2-6364-7812
Telefax	:	+82-2-6364-7809
Email address	:	peter@hyundailnc.com
Emergency telephone number	:	+82-2-6364-7812
Use of the Substance / Preparation	:	For professional use
Function	:	Adhering to solid surface

2. HAZARDS IDENTIFICATION



Irritant

Main Hazards

Harmful if swallowed.

Risks of serious damage to eyes.

Health Effects-Eyes

Liquid or mist will cause severe conjunctiva irritation and corneal damage.

Health Effects-Skin

Material may cause irritation.

Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

Health Effects-Ingestion

Swallowing may have the irritation of mouth, throat and digestive tract, nausea, difficulty with breathing, lung damage.

Health Effects-Inhalation

Low volatility makes acute effects unlikely at ambient temperatures.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components

Chemical nature of the preparation: benzyl peroxide, plasticizer

Components:

Dibenzoyl peroxide: ≥3.0 weight(%) *Tube Type: 5.0 weight (%), Cartridge Type: 3.0 weight (%)

XI: R36, R43

CAS-No: 94-36-0

EC-No: 202-327-6

Oxydipropyl dibenzoate: ≥60weight(%) *Tube Type: 95.0 weight(%), Cartridge Type: 94.0weight(%)

CAS-No: 27138-31-4

EC-No: 248-258-5

Silica amorphous,fumed, cryst.free: ≥60weight(%) *Tube Type: 0.0 weight(%), Cartridge Type: 3.0 weight(%)

CAS-No: 112945-52-5

EC-No: 601-216-3

4. FIRST AID MEASURES

General advice

Remove contaminated or saturated clothing.

Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Consult physician after significant exposure.

Skin contact

Wash off immediately with soap and plenty of water.

Eye contact

Rinse thoroughly with plenty of water at least 18 minutes and consult a Physician.

Keep eye wide open while rinsing**.**

Ingestion

Never give anything by mouth to unconscious person. Rinse mouth.

Ingest activated charcoal. Call a physician immediately.

Notes to physician

If required, therapy of irritative effect.

If substance has been swallowed:

Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear.

If necessary, aspirate leftover substance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use dry chemical, CO2, Water spray or “alcohol” foam.

Extinguishing media which must not be used for safety reasons

High volume water jet

Special Hazards

This product may give rise to hazardous fumes in a fire.

Protective Equipment

Wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation. Use personal protective equipment.

Remove all sources of ignition.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Soak up with inert absorbent material. Clean with detergents.

Avoid solvents.

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions

Keep product and empty container away from heat and sources of ignition.

Safe handling advice

Do not smoke.

Storage

Technical measures/Storage conditions

Keep at temperatures below 30℃.

Water mist may be used to cool closed containers.

Incompatible products: Reacts violently in contact with acids, amines, driers.

Polymerization accelerators and easily oxidized materials.

Packing material

Not applicable

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.

Hand protection

Solvent-resistant gloves

Eye protection

Safety glasses

Hygiene measures

Keep away from food, drink and animal feeding stuffs. Wash hands before Breaks and at the end of workday.

Exposure controls

National occupational exposure limits

- **Benzoyl peroxide:**
  TLV-TWA=5 mg/m3/A4/ACGIH(1997)
  Butyl benzyl phthalate: TLV-TWA=5 mg/m3/A4/ACGIH(1997)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:	liquid	
Color:	light yellow	
Odour:	slight	
PH: (℃) (at g/l H2O)	not applicable	
Decomposition temperature ℃	103	
Flash point:	above 100℃	closed up
Autoignition temperature	no data available ℃	
Vapour pressure: (147℃)	1.3hps	
Relative density: (℃)	from 1.03kg/l to 1.07kg/l	
Solubility:		
Water Solubility (℃)	Immiscible g/l	
Viscosity :(℃)	no data available mpa.s	
Explosion limits:	-lower no data available vol. %	
	-upper no data available vol. %	

10. STABILITY AND REACTIVITY

Conditions to avoid

Decomposition starting from 103℃: Dibenzoyl peroxide 100%

Materials to avoid:

Reacts violently in contact with acids, amines, driers, polymerization

Accelerators and easily oxidized materials.

Hazardous decomposition products:

Benzoic acid, biphenyls, benzene

11. TOXICOLOGICAL INFORMATION

Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

Acute toxicity

Benzoyl Peroxide:

LD50/oral/rac = 7710 mg/kg, RTECS, 19455

Oxydipropyl dibenzoate

Acute toxicity: LD50, oral: 8000 mg/kg (RTECS, 59814)

12. ECOLOGICAL INFORMATION

Mobility

The product will not dissolve in water.

Persistence/Degradability

The product is expected to be partially or slowly biodegradable.

Bio-accumulation

The product is not expected to bioaccumulation.

Ecotoxicity

No data

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Do not allow material to contaminate ground water system.

Prevent product from entering drains.

Contaminated packaging

Can be incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION UN-NO: 1133

ADR/RID

Class: 3 Item: 5(C) ADR/RID=Labels: 3

TREM-CARD: 30G80 HI/UN NO:

Proper shipping name: Adhesives

ICAO

UN/ID NO: 1133 Class: 3 Sub risks:

Packing group: III ICAO-Labels: Flammable liquid

Proper shipping name: Adhesives

IMO

Class: 3 IMDG Page: 3174 Sub risks:

Packing group: III IMO-Labels: Flammable liquid

Pms: 3 –05 MPAG: 330

Proper shipping name: Adhesives

15. REGULATORY INFORMATION

The product is classified and labeled in accordance with EC-Directive 88/379

Symbol(s):	Xi -irritant,
Contents:	Benzoyl peroxide
R-phrase:	R43-May cause sensitization by skin contact
S-phrase:	S14-Keep away from easily oxidizable materials
	S16-Keep away from source of ignition – No smoking
	S24/25-Avoid contact with skin and eyes
	S37-Wear suitable gloves

16. OTHER INFORMATION

When used in a mixture, read the labels and safety data sheet of all components,

END USE: adhesives.

Do not use in medical applications involving permanent implantation in the human body.

The information provided in this safety data sheet is correct to the best of our knowledge,

Information and belief at the date of its publication. The information given is designed only

As a guidance for safe handling, use, processing, storage, transportation, disposal and release

And is not to be considered a warranty or quality specification. The information relates only to

The specific material designated and may not be valid for such material used in combination

With any other materials or in any process, unless specified in the text.