

Interior Solid Surface Material

HI-MACS®
Natural Acrylic Stone™

TECHNICAL DATA SHEET

MSDS HI-MACS® ADHESIVE COMPONENT A |
ADHESIVE COMPONENT B | Material Safety Data Sheet



Photo: Baars & Bloemhoff

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: Hi-Macs JOINT ADHESIVE KIT - COMPONENT A

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

Relevant identified uses: Adhesive. Uses advised against: Do not use in medical applications involving permanent implantation in the human body.

1.3 Details of the supplier of the safety data sheet:

Mr. Hyoungkeun Choi winlife98@lghausys.com

1.4 Emergency telephone number:

UK National Poisons Information Service: 0844 892 0111 (24-hour telephone information line, for healthcare professionals only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Flammable liquid:	Flam. Liq. 2, H225
Skin corrosion/irritation:	Skin Irrit. 2, H315
Serious eye damage/eye irritation:	Eye Irrit. 2, H319
Skin sensitization:	Skin Sens. 1, H317
Specific target organ toxicity – single exposure: (respiratory tract irritation)	STOT SE 3, H335

2.1.2 Classification according to Directive 1999/45/EC:

Highly flammable:	F; R11
Irritant:	Xi; R36/37/38
Sensitizing:	R43

2.1.3 Additional information: For full text of R-phrases and hazard statements: see SECTION 16.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms:



Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation. Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapors.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.
 Hazardous ingredients for labelling: Methyl methacrylate.

2.3 Other hazards: There is no additional information.

SECTION 3: Composition/information or ingredients

3.1 Substances: Not relevant.

3.2 Mixtures: Description of the mixture: Synthetic resin(s) and filler(s). The mixture contains these substances:

SUBSTANCE NAME	EC/CAS NO.	CLASSIFICATION				CONC. (%)
		67/548/EEC	CLP			
			HAZARD CLASS AND CATEGORY CODE(S)	HAZARD STATEMENT	PICTOGRAM / SIGNAL WORD	
Methyl methacrylate ^{1, D}	201-297-1/ 80-62-6	Highly flammable F; R11Irritant Xi; R362/37/38 SensitizingR43	Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2 ² Skin Sens. 1ST OT SE 3	H225 H315 H3192 H317 H335	GHS02 GHS07 Dgr	28.7
Titanium dioxide ¹	236-675-5/ 13463-67-7	-	-	-	-	<1.2
Carbon black ¹	215-609-9/ 1333-86-4	-	-	-	-	<1.2

¹ Substance with workplace exposure limits.

² Classification according to manufacturer.

Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

General advice

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Ingest activated charcoal. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed:

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed: None.

SECTION 5: Firefighting measures

5.1 Extinguishing media: Suitable extinguishing media: water spray, alcohol resistant foam, dry chemical, carbon dioxide (CO₂). Unsuitable extinguishing media: water jet.

5.2 Special hazards arising from the substance or mixture: In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Hazardous combustion products: nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂).

5.3 Advice for firefighters: In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Remove persons to safety. For emergency responders: Wear breathing apparatus if exposed to vapours.

6.2 Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up: Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, diatomite, sand, universal binder). Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections: Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Use local and general ventilation. Keep away from sources of ignition – No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosionproof electrical/ventilating/lighting equipment. Use only non-sparking tools. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air. Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight. Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Take precautionary measures against static discharge. Ground/bond container and receiving equipment.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational exposure limit values listed in EH40/2005 Workplace exposure limits:

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SUBSTANCE	CAS NUMBER	WORKPLACE EXPOSURE LIMIT				COMMENTS
		LONG-TERM EXPOSURE LIMIT (8-HR TWA REFERENCE PERIOD)		SHORT-TERM EXPOSURE LIMIT (15-MINUTE REFERENCE PERIOD)		
		PPM	MG/M ³	PPM	MG/M ³	
Methyl methacrylate	80-62-6	50	208	100	416	-
Titanium dioxide total inhalable	13463-67-7	-	10	-	-	-
respirable		-	4	-	-	
Carbon black	1333-86-4	-	3.5	-	7	-

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: General ventilation.

8.2.2 Individual protection measures, such as personal protective equipment:

8.2.2.1 Eye/face protection: Wear eye/face protection.

8.2.2.2 Skin protection:

Hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Other: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

8.2.2.3 Respiratory protection: In case of inadequate ventilation wear respiratory protection.

8.2.2.4 Thermal hazards: No data available.

8.2.3 Environmental exposure controls: Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water

SECTION 9: Physical and chemical properties

APPEARANCE	liquid
	colour: various
ODOUR:	acrylic
ODOUR THRESHOLD:	no data available
pH:	not applicable
MELTING POINT/FREEZING POINT:	no data available
INITIAL BOILING POINT AND BOILING RANGE:	no data available
FLASH POINT:	10°C (closed cup)
EVAPORATION RATE:	no data available
FLAMMABILITY (SOLID, GAS):	not applicable
UPPER/LOWER FLAMMABILITY OR EXPLODIVE LIMITS:	2.1 vol. % (lower) 12.5 vol % (upper)
VAPOR PRESSURE (20°C):	39 hps
VAPOR DENSITY:	no data available
RELATIVE DENSITY:	1.20 - 1.24 kg/l
SOLUBILITY(IES):	partially miscible in water
PARTITION COEFFICIENT: N-OCTANOL/WATER:	no data available
AUTO-IGNITION TEMPERATURE:	430°C
DECOMPOSITION TEMPERATURE:	no data available
VISCOSITY:	no data available
EXPLOSIVE PROPERTIES:	no data available
OXIDIZING PROPERTIES:	no data available

9.2 Other information: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition.

10.2 Chemical stability: No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. UV radiation/ sunlight.

10.5 Incompatible materials: Oxidisers - reducing agents.

10.6 Hazardous decomposition products: Methyl methacrylate monomer.

SECTION 11: Toxicological information

11.1 Information on toxicological effects: Test data are not available for the complete mixture.

Substances: Methyl methacrylate

Acute toxicity: LD50, oral: 7872 mg/kg (RTECS, 47796)

Mixtures:

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure: May cause respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

12.1 Toxicity: Mixture is not classified as hazardous to the aquatic environment.

12.2 Persistence and degradability: No data available.

12.3 Bio-accumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods: Dispose off in accordance with local and national regulations. Do not empty into drains. Avoid release to the environment. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number: No data available.

14.2 UN proper shipping name: No data available.

14.3 Transport hazard class(es): No data available.

14.4 Packing group: No data available.

14.5 Environmental hazards: No data available.

14.6 Special precautions for user: No data available.

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

No data available.

SECTION 15: Regulatory information

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

or mixture: The substances in the mixture are not subject to the authorization under Title VII nor restrictions under Title VIII of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment: Chemical safety assessment for substances in this mixture is not available.

SECTION 16: Other information

List of relevant hazard statements:

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

R11 Highly flammable.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitization by skin contact.

Instructions for the training: Product handling instruction shall be included into the educational system about the safety work (initial training, training at the workplace, repeated training) according to specific conditions at the workplace.

Recommended restrictions on use (i.e. non-statutory recommendations by supplier):

Mixture should not be used for any other purpose than for which is appointed (point 1.2). Because of the fact that specific conditions of use of substance are out of supplier's control, it is responsibility of the user to adjust the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and it cannot be considered as technical information about product.

Sources of key data used to compile the Safety Data Sheet: SDS was elaborated according to requirements set in Annex II of Regulation (EC) No 1907/2006 of the European Parliament and of the Council. SDS was prepared using data from the producer. This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Classification procedure:

Physical and chemical properties: The classification is based on tested mixture. Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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Purpose of SDS: Purpose of this SDS is to provide relevant information for users of product to ensure proper handling and control of risks/hazards.

Abbreviations and acronyms

CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EH40/2005	EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits
Eye Irrit.	eye irritation
F	highly flammable
Flam. Liq.	flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
PBT	Persistent, Bioaccumulative and Toxic
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Skin Irrit.	skin irritation
Skin Sens.	skin sensitisation
STOT SE	specific target organ toxicity - single exposure
vPvB	very Persistent and very Bioaccumulative
Xi	irritant

ADHESIVE B

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: Hi-Macs JOINT ADHESIVE KIT - COMPONENT B

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

Relevant identified uses: Adhesive.

Uses advised against: Do not use in medical applications involving permanent implantation in the human body.

1.3 Details of the supplier of the safety data sheet:

Mr. Hyoungkeun Choi winlife98@lghausys.com

1.4 Emergency telephone number:

UK National Poisons Information Service: 0844 892 0111 (24-hour telephone information line, for healthcare professionals only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Skin sensitization: Skin Sens. 1, H317

2.1.2 Classification according to Directive 1999/45/EC:

Sensitizing: R43

2.1.3 Additional information: For full text of R-phrases and hazard statements: see SECTION 16.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms:



Signal word: Danger

Hazard statements:

H317 May cause an allergic skin reaction.

Precautionary statements:

P261 Avoid breathing vapours.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

Hazardous ingredients for labelling: Dibenzoyl peroxide.

2.3 Other hazards: There is no additional information.

SECTION 3: Composition/information or ingredients

3.1 Substances: Not relevant.

3.2 Mixtures: Description of the mixture: Plasticizer. The mixture contains these substances:

SUBSTANCE NAME	EC/CAS NO.	CLASSIFICATION				CONC. (%)
		67/548/EEC	CLP			
			HAZARD CLASS AND CATEGORY CODE(S)	HAZARD STATEMENT	PICTOGRAM / SIGNAL WORD	
Oxydipropyl dibenzoate	248-258-5/ 2 7138-31-4	-	-	-	-	94.2
Dibenzoyl peroxide ¹	202-327-6 / 94-36-0	Explosive E; R3 Oxidising O; R7 Irritant Xi; R36S ensitising R43	Org. Perox. BEye Irrit. 2Skin Sens. 1	H241 H319 H317	GHS01 GHS02 GHS07 Dgr	2.9
Silica, amorphous, fumed, cryst.-free ¹	601-216-3/ 1 12945-52-5	-	-	-	-	2.9

¹ Substance with workplace exposure limits.

For full text of H-statements and R-phrases: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures:

General advice

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Ingest activated charcoal. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed: Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed: None.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: water spray, alcohol resistant foam, dry chemical, carbon dioxide (CO₂).

Unsuitable extinguishing media: water jet.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂).

5.3 Advice for firefighters: In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Remove persons to safety. For emergency responders: Wear breathing apparatus if exposed to vapors.

6.2 Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up: Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, diatomite, sand, universal binder). Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections: Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Use local and general ventilation. Keep away from sources of ignition – No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosionproof electrical/ventilating/lighting equipment. Use only non-sparking tools. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air. Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight. Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Take precautionary measures against static discharge. Ground/bond container and receiving equipment.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational exposure limit values listed in EH40/2005 Workplace exposure limits:

SUBSTANCE	CAS NUMBER	WORKPLACE EXPOSURE LIMIT				COMMENTS
		LONG-TERM EXPOSURE LIMIT (8-HR TWA REFERENCE PERIOD)		SHORT-TERM EXPOSURE LIMIT (15-MINUTE REFERENCE PERIOD)		
		PPM	MG/M ³	PPM	MG/M ³	
Dibenzoyl peroxide	94-36-0	-	5	-	-	-
Silica, amorphous inhalable dust respirable dust	-	-	6	-	-	-
		-	2.4	-	-	

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: General ventilation.

8.2.2 Individual protection measures, such as personal protective equipment:

8.2.2.1 Eye/face protection: Wear eye/face protection.

8.2.2.2 Skin protection:

Hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Other: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

8.2.2.3 Respiratory protection: In case of inadequate ventilation wear respiratory protection.

8.2.2.4 Thermal hazards: No data available.

8.2.3 Environmental exposure controls: Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

APPEARANCE	liquid
	colour: light yellow
ODOUR:	slight
ODOUR THRESHOLD:	no data available
pH:	not applicable
MELTING POINT/FREEZING POINT:	no data available
INITIAL BOILING POINT AND BOILING RANGE:	no data available
FLASH POINT:	above 100°C (closed cup)
EVAPORATION RATE:	no data available
FLAMMABILITY (SOLID, GAS):	not applicable
UPPER/LOWER FLAMMABILITY OR EXPLODIVE LIMITS:	no data available
VAPOR PRESSURE (20°C):	1.3 hps
VAPOR DENSITY:	no data available
RELATIVE DENSITY:	1.03 - 1.07 kg/l
SOLUBILITY(IES):	immiscible in water
PARTITION COEFFICIENT: N-OCTANOL/WATER:	no data available
AUTO-IGNITION TEMPERATURE:	no data available
DECOMPOSITION TEMPERATURE:	103°C
VISCOSITY:	no data available
EXPLOSIVE PROPERTIES:	no data available
OXIDIZING PROPERTIES:	no data available

9.2 Other information: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability: Decomposition starting from 103°C: Dibenzoyl peroxide 100%.

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: Keep away from heat and ignition sources.

10.5 Incompatible materials: Reacts violently in contact with acids, amines, driers, polymerization accelerators and easily oxidized materials.

10.6 Hazardous decomposition products: Benzoic acid, biphenyls, benzene.

SECTION 11: Toxicological information

11.1 Information on toxicological effects: Test data are not available for the complete mixture.

Substances:

Oxydipropyl dibenzoate

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

Dibenzoyl peroxide

Acute toxicity: LD50, oral: 7710 mg/kg (RTECS, 19455)

Mixtures:

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Repeated and prolonged exposure to solvents may cause brain and nervous system damage

SECTION 12: Ecological information

12.1 Toxicity: Mixture is not classified as hazardous to the aquatic environment.

12.2 Persistence and degradability: No data available.

12.3 Bio-accumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods: Dispose off in accordance with local and national regulations. Do not empty into drains. Avoid release to the environment. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number: No data available.

14.2 UN proper shipping name: No data available.

14.3 Transport hazard class(es): No data available.

14.4 Packing group: No data available.

14.5 Environmental hazards: No data available.

14.6 Special precautions for user: No data available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
No data available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: The substances in the mixture are not subject to the authorization under Title VII nor restrictions under Title VIII of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment: Chemical safety assessment for substances in this mixture is not available.

SECTION 16: Other information

List of relevant hazard statements:

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R7 May cause fire.

R36 Irritating to eyes.

R43 May cause sensitization by skin contact.

Instructions for the training: Product handling instruction shall be included into the educational system about the safety work (initial training, training at the workplace, repeated training) according to specific conditions at the workplace.

Recommended restrictions on use (i.e. non-statutory recommendations by supplier):

Mixture should not be used for any other purpose than for which is appointed (point 1.2).

Because of the fact that specific conditions of use of substance are out of supplier's control, it is responsibility of the user to adjust the prescribed warnings to local laws and regulations.

Safety information describes the product in terms of safety and it cannot be considered as technical information about product.

Sources of key data used to compile the Safety Data Sheet: SDS was elaborated according to requirements set in Annex II of Regulation (EC) No 1907/2006 of the European Parliament and of the Council. SDS was prepared using data from the producer. This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Classification procedure:

Physical and chemical properties: The classification is based on tested mixture. Health hazards/ environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Purpose of SDS: Purpose of this SDS is to provide relevant information for users of product to ensure proper handling and control of risks/hazards.

Abbreviations and acronyms

CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EH40/2005	EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits
E	explosive
Eye Irrit.	eye irritation
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
O	oxidising
Org. Perox.	organic peroxide
PBT	Persistent, Bioaccumulative and Toxic
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Skin Sens.	skin sensitisation
vPvB	very Persistent and very Bioaccumulative
Xi	irritant

ADHESIVE B

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■ LG Hausys Europe GmbH

European Headquarters:
LG Hausys Europe GmbH
Lyoner Str. 15
60528 Frankfurt
Germany
info@himacs.eu
www.himacs.eu