

SAFETY DATA SHEET

IGL COATINGS™ ECOCOAT QUARTZ+ BASE



Material no.

Specification

154310

Revision date

16.02.2021

Version

1.15

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

PRODUCT NAME : IGL Coatings™ ecocoat quartz+ base
FUNCTION : Hydro & oleophobicizing and easy clean agent surface modifier and gloss enhancer
COMPANY : Ominent Sdn Bhd
ADDRESS : No.7, Jalan Majistret U1/26, Hicom-Glenmarie Industrial Park, Seksyen U1, 40150 Shah Alam, Selangor.
PHONE : +60355690980
EMAIL ADDRESS : regulations@iglcoatings.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Physical hazards

Flammable liquid Category 2

Health hazards

Acute toxicity (Oral) Category 4

Acute toxicity (Inhalation) Category 4

Skin irritation Category 2

Eye irritation Category 2

Specific Target Organ Toxicity-Single Exposure Category 3

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS02



GHS07

Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour

H303 May be harmful if ingested

H315 Causes skin irritation

H319 Causes serious eye irritation

H333 May be harmful if inhaled

H336 May cause drowsiness or dizziness

Precautionary statements

P210 Keep away from open flames and hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground container and receiving equipment.

P241 Use explosion proof equipment.

P242 Use only non-sparking tools.

P261 Avoid breathing fumes.

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

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

P280 Wear protective gloves, protective clothing, eye protection and face mask.

P301+P312+P330 IF SWALLOWED: Rinse mouth. Call a physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical attention.

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P337+P313	If eye irritation persists: Get medical attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: use foam/dry chemical/carbon dioxide to extinguish.
P403+P233+P235	Store in a well-ventilated place. Keep container tightly closed and keep cool.
P405	Store locked up.
P501	Dispose of contents/container to comply with local, state and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Chemical Name	Quantity		
	EC No.	Index No.	REACH No.	
	Classification according to Regulation (EC) No. 1272/2008 (CLP)			
70131-67-8	Polydimethylsiloxane			70-90%
	615-070-3	Not applicable	Not applicable	
	Flam. Liq. 2: H225			
950595-49-0	Aluminium chelate compound			10-30%
	619-101-1	Not applicable	Not applicable	
	Not applicable			
7782-42-5	Graphene			0.1-1%
	231-955-3	Not applicable	01-2119486977-12-0000	
	Not applicable			

Additional information:

The exact percentage of some ingredients used in this product are considered to be proprietary and are withheld as confidential business information.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Information

Take off contaminated clothing.

After Inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

After skin contact

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water at least 15 minutes. Remove contact lenses, if presence and easy to do

In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting.

In all cases of doubt, or when symptoms persist, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Foam, dry chemical or carbon dioxide.

5.2 Unsuitable extinguishing media

Not known.

5.3 Special hazards arising from the substance or mixture

Hazardous toxic and irritating fumes or smoke may be emitted.

Vapours may travel considerable distance to ignition source and flash back.

5.4 Advise for firefighters

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As in any fire, wear self-contained positive pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

5.5 Unusual Fire Hazards:

Not known.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (Refer to section 8).

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections

Safe handling: Refer to section 7

Personal protection equipment: Refer to section 8

Disposal: Refer to section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (Refer to section 8).

Further information on handling

General protection and hygiene measures: Refer to section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with food and feeding stuffs.

Further information on storage conditions

Keep the packing dry and well-sealed to prevent contamination.

Recommended storage temperature: 20-25 °C

Protect against UV-radiation/sunlight and heat.

7.3 Specific end use(s): Refer to section 1.

7.4. Information about the emptied container

Dispose as per local regulation.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: No information available.

Additional Information: The lists valid during the making were used as basis.

8.2 Exposure Control

8.2.1 General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Ensure adequate ventilation.

8.2.2 Personal protective equipment:

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the

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chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

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.

Eye protection: Goggles recommended during refilling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	: 180-220 °C
Specific Gravity	: 0.98 (water = 1)
Flash Point	: ~ 20 °C
pH	: N/A
Solubility in Water	: Not soluble
Appearance (colour)	: Colourless
Appearance (form)	: Liquid
Odour	: Odourless

10. STABILITY AND REACTIVITY

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability: Stable under normal condition.

Thermal decomposition / conditions to avoid: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: Sunlight, heat, open flames, high temperature, sparks, static electrical charge and other ignition sources.

10.5 Incompatible materials: Strong oxidizers

10.6 Hazardous decomposition products: Material does not decompose at ambient temperature.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects: No information available.

Acute toxicity: No information available.

Skin corrosion/irritation: No information available.

Serious eye damage/eye irritation: No information available.

Respiratory or skin sensitization: No information available.

Summary of evaluation of the CMR properties: No information available.

Specific target organ toxicity – single exposure: No data available

Specific target organ toxicity – repeated exposure: No data available

Aspiration hazard: No information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Process of degradability

Readily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB Assessment

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Data are not available.

12.6 Other adverse effects

Data are not available.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

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

Sewage disposal-related information

Do not empty into drains.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

14. TRANSPORT INFORMATION

14.1 IATA-DGR

UN number : 1263
UN proper shipping name : Paint-related materials
Transport hazard class(es) : 3
Packing group : II
Environmental hazards : No
Special precautions for user : -
Remarks : -

14.2 IMDG-Code

UN number : 1263
UN proper shipping name : Paint-related materials
Transport hazard class(es) : 3
Packing group : II
Environmental hazards : No
Marine pollutant : No
EmS Code : -

15. REGULATORY INFORMATION

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

US Federal Regulations

US Toxic Substances Control Act (TSCA)

All chemical substances in this material are included on the TSCA Inventory of Chemical Substances.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Hazardous Substance List

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Emergency Planning and Community Right-To-Know Act (EPCRA) Section 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

Emergency Planning and Community Right-To-Know Act (EPCRA) Section 313 Toxics Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

US. State Regulation

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

EU Regulation

EU. Directive 2012/18/EU (SEVESO III) on Major Accident Hazards Involving Dangerous Substances, Annex I:

Not applicable.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. OTHER INFORMATION

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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 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 use in combination with any other materials or any process, unless specified in the test.

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

PRODUCT NAME : IGL Coatings™ ecocoat quartz+ top
FUNCTION : Hydro- & oleophobic and easy clean agent surface modifier and gloss enhancer
COMPANY : Ominent Sdn Bhd
ADDRESS : No.7, Jalan Majistret U1/26, Hicom-Glenmarie Industrial Park, Seksyen U1, 40150 Shah Alam, Selangor.
PHONE : +60355690980
EMAIL ADDRESS : regulations@iglcoatings.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Physical hazards

Flammable liquid Category 3

Health hazards

Skin irritation Category 2

Serious eye damage Category 1

Specific target organ toxicity – single exposure Category 3

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS02



GHS05



GHS07

Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour
H317 Causes skin irritation
H318 Causes serious eye damage
H336 May cause drowsiness or dizziness

Precautionary statements

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.
P261 Avoid breathing dust/fume/gas/vapours.
P264 Wash exposed skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use water spray, dry chemical or carbon dioxide to extinguish.
P403+P235 Store in well-ventilated place. Keep cool.
P405 Store locked up.

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P501

Dispose of contents/container to comply with local, state and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Chemical Name			Quantity
	EC No.	Index No.	REACH No.	
	Classification according to Regulation (EC) No. 1272/2008 (CLP)			
123-86-4	Butyl acetate			80-100%
	204-658-1	607-025-00-1	01-2119485493-29-0000	
	STOT SE 3: H336; Flam. Liq. 3: H226			
475645-84-2	Organopolysilazane			5-10%
	Not applicable	Not applicable	Not applicable	
	Acute Tox. 4: H302; Flam. Liq. 2: H225; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1: H317			
63148-61-8	Organopolysiloxane			0.1-1%
	814-597-8	Not applicable	Not applicable	
	Not applicable			
7782-42-5	Graphene			0.1-1%
	231-955-3	Not applicable	01-2119486977-12-0000	
	Not applicable			

Additional information:

The exact percentage of the ingredients used in this product are considered to be proprietary and are withheld as confidential business information.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Information

Take off contaminated clothing.

After Inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

After skin contact

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water at least 15 minutes. Remove contact lenses, if presence and easy to do
In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting.

In all cases of doubt, or when symptoms persist, seek medical advice.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water spray, dry chemical or carbon dioxide.

5.2 Unsuitable extinguishing media

High volume water jet.

5.3 Special hazards arising from the substance or mixture

Hazardous toxic and irritating fumes or smoke may be emitted

Vapours may travel considerable distance to ignition source and flash back

5.4 Advise for firefighters

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition

Beware of vapours accumulating to form explosive concentrations. Vapour can accumulate in low areas.

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Do not breath vapour/dust. Avoid contact with eyes. Wash thoroughly with water and soap after handling.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge

Further information on handling

General protection and hygiene measures: refer to section 8.

7.2. Conditions for safe storage, including any incompatibilities

Further information on handling

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with food and feeding stuffs.

Further information on storage conditions

Keep the packing dry and well-sealed to prevent contamination. Recommended storage temperature: 20C

Protect against: UV-radiation/sunlight. heat.

Static electricity may accumulate and cause a fire hazard

7.3. Specific end use(s): refer to section 1.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Component	Value type (Form of exposure)	Control parameter	Basis
Butyl acetate	TWA	150 ppm 713 mg/m ³	MY OEL
	TWA	150 ppm	ACGIH
	STEL	200 ppm	ACGIH

8.2 Exposure Control

Advice on safe handling

8.2.1 General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Ensure adequate ventilation.

8.2.2 Personal protective equipment:

Respiratory protection: Required when aerosols are generated. Recommended filter type: ABEK filter

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Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of protective clothing should take into account all relevant work factors such as: other chemicals which may be handled, physical requirements, etc.

Material of gloves:

Butyl rubber.

Penetration time of glove material:

> 10 min

Eye protection: Tightly fitting eye goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	: 126 °C
Vapour Pressure	: 10.66 hPa (at 20°C)
Relative Vapor Density	: 4.0 (Air = 1)
Specific Gravity	: No data available
Melting Point	: Not applicable
Flash Point	: 26°C
pH	: No data available
Evaporation Rate	: Not applicable
Solubility in Water	: Not soluble
Appearance (color)	: Colourless
Appearance (form)	: Liquid
Odour	: Ester-like

10. STABILITY AND REACTIVITY

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability: Stable under normal conditions.

Thermal decomposition / conditions to avoid: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid: Sunlight, heat, open flames, high temperature, sparks, static electrical charge, other ignition sources

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: Possible decomposition products in case of hydrolysis: Hydrogen, ammonia, condensed siloxane.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Exposure route	Endpoint	Value	Species
Oral	LD50	2940 mg/kg	Rat
Dermal	LD50	17414 mg/kg	Rabbit

Skin corrosion/irritation: May causes mild skin irritation.

Eye irritation: May cause mild eye irritation.

Respiratory or skin sensitization: No information available.

Summary of evaluation of the CMR properties: Shall not be classified as a germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity – single exposure: No information available.

Specific target organ toxicity – repeated exposure: No information available.

Aspiration hazard: No information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Specified substance: Butyl acetate

Endpoint	Value	Species	Exposure time
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LC50	18 mg/L	Fish (Pimephales promelas)	96 hours
EC50	44 mg/L	Water flea (Daphnia magna)	48 hours
ErC50	630 µg/L	Desmodesmus subspicatus (green algae)	72 hours

Specified substance: Organopolysilazane

Endpoint	Value	Species	Exposure time
LC50	57.1 mg/L	Zebra fish (Danio rerio)	96 hours

Specified substance: Polysiloxane

Endpoint	Value	Species	Exposure time
LC50	> 100 mg/L	Fish (Pimephales promelas)	96 hours
EC50	> 10000 mg/L	Water flea (Daphnia magna)	48 hours

12.2 Process of degradability

No data available.

12.3 Bioaccumulative 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

Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

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

Sewage disposal-related information

Do not empty into drains.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

14. TRANSPORT INFORMATION

14.1 IATA-DGR

UN number : 1263
UN proper shipping name : Paint related materials
Transport hazard class(es) : 3
Packing group : III
Environmental hazards : -
Special precautions for user : No data available.

14.2 IMDG-Code

UN number : 1263
UN proper shipping name : Paint related materials
Transport hazard class(es) : 3
Packing group : III
Environmental hazards : --
Marine pollutant : No

15. REGULATORY INFORMATION

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

US Federal Regulations

US. Toxic Substances Control Act (TSCA)

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All chemical substances in this material are included on the TSCA Inventory of Chemical Substances.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Hazardous Substance List

This product contains the following substance subject to the reporting requirements of CERCLA Hazardous Substance List

Component(s)	CAS No.
Butyl acetate	123-86-4

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Emergency Planning and Community Right-To-Know Act (EPCRA) Section 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

Emergency Planning and Community Right-To-Know Act (EPCRA) Section 313 Toxics Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

US. State Regulation

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

EU Regulation

EU. Directive 2012/18/EU (SEVESO III) on Major Accident Hazards Involving Dangerous Substances, Annex I:

Not applicable.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. OTHER INFORMATION

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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