SAFETY DATA SHEETS

This SDS packet was issued with item: 075217575

N/A



Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 05/07/2012

Reviewed on 04/01/2012

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

· Product identifier

· Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

- · Article number: US028
- · Application of the substance / the preparation Adhesive, dental ceramic

· Details of the supplier of the safety data sheet

· Manufacturer:

Kuraray Noritake Dental Inc. 1621 Sakazu, Kurashiki, Okayama 710-0801, Japan • Contact information:

Kuraray America, Inc. 33 Maiden Lane, 6th Floor, New York, NY 10038 U.S.A. Tel: 800-879-1676 Fax: 888-700-5200 Website: www.kuraraydental.com

2 Composition/information on ingredients

· Chemical characterization: Single Component

 \cdot **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

2530-85-0 3-trimethoxysilylpropyl methacrylate H311; (1) H315; H319; H335; H227

40-60%

• Other ingredients:

Hydrophobic aromatic dimethacrylate Others

3 Hazards identification

· Classification of the substance or mixture

GHS06 Skull and crossbones

H311 Toxic in contact with skin.

GHS07

H315 Causes skin irritation.

- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

H227 Combustible liquid.

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

🗶 Irritant

Irritating to eyes, respiratory system and skin.

· Information concerning particular hazards for human and environment:

The product has to be labelled 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.

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Printing date 05/07/2012

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Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

	(Contd. of page 1		
· Label elemen	ts		
GHS label ele	ements		
The product is	s classified and labelled according to the Globally Harmonized System (GHS).		
	grams GHS06		
Signal word l	Danger		
	mining components of labelling:		
	3-trimethoxysilylpropyl methacrylate		
Hazard state	ments		
H227 Combus			
H311 Toxic ir	n contact with skin.		
H315 Causes	skin irritation.		
H319 Causes	serious eye irritation.		
H335 May cau	use respiratory irritation.		
Precautionar	y statements		
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.		
P305+P351+F	2338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if		
	present and easy to do. Continue rinsing.		
P361	Remove/Take off immediately all contaminated clothing.		
P321	Specific treatment (see on this label).		
P405	Store locked up.		
P501	Dispose of contents/container in accordance with local/regional/national/international		
	regulations.		
Classification	ı system:		
NFPA rating	s (scale 0 - 4)		
	Health = 1		
	Fire = 2		
	Reactivity = 0		
HMIS-rating	s (scale 0 - 4)		
HEALTH 1	Health = 1		
FIRE 2	Fire = 2		
	Reactivity = 0		

Material Safety Data Sheet acc. to ISO/DIS 11014

4 First aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Do not induce vomiting; immediately call for medical help.

If symptoms persist consult doctor.

5 Firefighting measures

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture No further relevant information available.

· Protective equipment:

Wear self-contained respiatory protective device.

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Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

Wear fully protective suit.

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6 Accidental release measures

- \cdot Personal precautions, protective equipment and emergency procedures Not required.
- \cdot Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

- · 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

Ensure good ventilation/exhaustion at the workplace.

- Prevent formation of aerosols.
- \cdot Information about protection against explosions and fires: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a refrigerator (2-8°C).
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- 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.
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment:
- \cdot General protective and hygienic measures:
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

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 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

(Contd. on page 4)



KUGATAN Material Safety Data Sheet acc. to ISO/DIS 11014 acc. to ISO/DIS 11014

Printing date 05/07/2012

Reviewed on 04/01/2012

Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

(Contd. of page 3) resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

General Information	
Appearance:	
Form:	Liquid
Color:	Transparent
Odor:	Slightly methacrylate odor
pH-value:	Not applicable
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	190 °C (3-trimethoxysilylpropyl methacrylate)
Flash point:	92 °C (3-trimethoxysilylpropyl methacrylate)
Ignition temperature:	Not applicable
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapor pressure:	Not applicable
Density:	1.1 g/cm ³ (9.18 lbs/gal)
Vapour density	Not applicable
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Segregation coefficient (n-octonol/wa	ater): Not applicable
Other information	No further relevant information available.

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

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USA



KUGATAY Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 05/07/2012

Reviewed on 04/01/2012

Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

(Contd. of page 4)

11 Toxicological information

- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

2530-85-0 3-trimethoxysilylpropyl methacrylate

LD50 22600 mg/kg (rat) Oral

Dermal LD50 500 mg/kg (rabbit)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

12 Ecological information

- · 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.
- · 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.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

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

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
\cdot UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
· Packing group		
· DOT, ADR, IMDG, IATA	Void	
· Environmental hazards:		
· Marine pollutant:	No	



KUCOLOGY Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 05/07/2012

Reviewed on 04/01/2012

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Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

· Special precautions for user

Not applicable.

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· Transport in bulk according to Annex II of

· Section 355 (extremely hazardous substances):

MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation":

15 Regulatory information

· Sara

	· · · · · · · · · · · · · · · · · · ·		
	None of the ingredient is listed.		
	· Section 313 (Specific toxic chemical listings):		
	None of the ingredients is listed.		
	TSCA (Toxic Substances Control Act):		
	All ingredients are listed.		
•	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.		
•	Cancerogenity categories		
•	EPA (Environmental Protection Agency)		
	None of the ingredients is listed.		

· IARC (International Agency for Research on Cancer)

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.

· OSHA-Ca (Occupational Safety & Health Administation)

None of the ingredients is listed.

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.

- · Version: 4
- · Relevant phrases
- Not applicable
- H227 Combustible liquid.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation. H335 May cause respiratory irritation.



Safety Data Sheet acc. to OSHA HCS

Version 5

Printing date 08/01/2017

Reviewed on 08/01/2017

1 Identification

· Product identifier

[·] Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

• Article number: US028

· Relevant identified uses of the substance or mixture and uses advised against

- No further relevant information available.
- \cdot Application of the substance / the mixture Adhesive, dental ceramic

· Details of the supplier of the safety data sheet

· Manufacturer:

Kuraray Noritake Dental Inc. 1621 Sakazu, Kurashiki, Okayama 710-0801,

Japan Contact informatio

Contact information: Kuraray America, Inc.
33 Maiden Lane, 6th Floor, New York, NY 10038 U.S.A.
Tel: 800-879-1676
Fax: 888-700-5200
Website: www.kuraraydental.com
Emergency telephone number:
For chemical emergency spill, leak, fire, exposure or accident Call CHEMTREC day and night
Within USA and Canada: 1-800-424-9300 CCN706984 or +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

· Classification of the substance or mixture

GHS07

Skin Irrit. 2 H315 Causes skin irritation.Eye Irrit. 2A H319 Causes serious eye irritation.STOT SE 3 H335 May cause respiratory irritation.

Flam. Liq. 4 H227 Combustible liquid.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms GHS07

· Signal word Warning

· Hazard-determining components of labeling:

3-trimethoxysilylpropyl methacrylate

· Hazard statements

H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· Precautionary statements

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

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves / eye protection / face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

(Contd. on page 2)

40-60%



Safety Data Sheet acc. to OSHA HCS

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Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

	(Contd. of page 1)
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	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 substances listed below with nonhazardous additions.

· Dangerous components:

2530-85-0 3-trimethoxysilylpropyl methacrylate

🚯 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Flam. Liq. 4, H227

• Other ingredients: Hydrophobic aromatic dimethacrylate

4 First-aid measures

· Description of first aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:

Do not induce vomiting; immediately call for medical help.

- If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- 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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment:
- Wear self-contained respiratory protective device.
- Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Not required. • Environmental precautions: Do not allow to enter sewers/ surface or ground water.

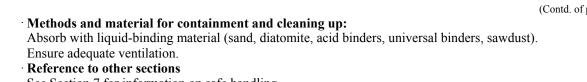
(Contd. on page 3)

US

Safety Data Sheet acc. to OSHA HCS

Version 5

Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR



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

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: Store in a refrigerator (2-8 °C).

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

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 chemical mixture.

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

(Contd. on page 4)



(Contd. of page 2)



Printing date 08/01/2017

Safety Data Sheet acc. to OSHA HCS

Version 5

Reviewed on 08/01/2017

Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

(Contd. of page 3)

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 can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



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Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties		
· General Information · Appearance:		
Form:	Liquid	
Color:	Transparent	
· Odor:	Slightly methacrylate odor	
Odor threshold:	Not determined.	
· pH-value:	Not determined	
· Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	190 °C (3-trimethoxysilylpropyl methacrylate)	
· Flash point:	92 °C (3-trimethoxysilylpropyl methacrylate)	
· Ignition temperature:	Not applicable	
• Decomposition temperature:	Not determined	
Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined	
Upper:	Not determined	
• Oxidizing properties	Not determined	
Density:	1.1 g/cm^3	
Relative density	Not determined	
· Vapor density	Not determined	
• Evaporation rate	Not determined	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	Not determined	
· Other information	No further relevant information available.	

10 Stability and reactivity

• Reactivity No further relevant information available.

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Safety Data Sheet acc. to OSHA HCS

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Version 5

(Contd. of page 4)

Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

· Chemical stability

• Thermal decomposition / conditions to be avoided:

No decomposition if used and stored 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: Carbon monoxide and carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

2530-85-0 3-trimethoxysilylpropyl methacrylate

Oral LD50 22600 mg/kg (rat)

Dermal LD50 500 mg/kg (rabbit)

Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· 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.

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.

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Printing date 08/01/2017

Safety Data Sheet acc. to OSHA HCS

Version 5

Reviewed on 08/01/2017

Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

(Contd. of page 5)

13 Disposal considerations

· Waste treatment methods

· Recommendation:

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

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
·DOT	Void
· ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
DOT	Void
· ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT	
COMBUSTIBLE 3	
· Class	Void
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
DOT	Void
· ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

(Contd. on page 7)



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Safety Data Sheet acc. to OSHA HCS

Version 5

Trade name: CLEARFIL PORCELAIN BOND ACTIVATOR

(Contd. of page 6)

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.		
· Cancerogenity 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.		

· 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.

· Relevant phrases

- H227 Combustible liquid.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- NFPA ratings (scale 0 4)

 $\begin{array}{c} 2 \\ 2 \\ 0 \\ \end{array} \begin{array}{c} \text{Health} = 2 \\ \text{Fire} = 2 \\ \text{Reactivity} = 0 \end{array}$

· HMIS-ratings (scale 0 - 4)



Abbreviations and acronyms:

Flam. Liq. 4: Flammable liquids – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 * *** Data compared to the previous version altered.**