

SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH), Annex II
(COMMISSION REGULATION (EU) No 453/2010)

Version 1
Product Name Glyoxa

Issue Date 29-Apr-2015
Revision date 29-Apr-2015

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

1.1. Product identifier

Product Name Glyoxa
CAS No 107-22-2
REACH registration number 01-2119461733-37-0002

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

Recommended Use No information available
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Only representative REACH24H CONSULTING GROUP
Address Suite 1E, Paramount Court, Corrig Road, Sandyford, Dublin 18, Ireland
E-mail Info@reach24h.com

Supplier HUBEI HONGYUAN PHARMACEUTICAL TECHNOLOGY CO., LTD.
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Postal Code 438605
Phone +86-713-5072024
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E-mail office@hbhypharm.com

Importer
Address
Postal Code
Phone
FAX
E-mail

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation Category 2 - (H315)
Serious eye damage/eye irritation Category 2 - (H319)
Skin sensitization Category 1 - (H317)
Germ cell mutagenicity Category 2 - (H341)
Carcinogenicity Category 1B - (H350)

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

Xn - Harmful
Muta. cat. 3; R68, Xn;R20, Xi;R36/37/38, R43

2.2. Label elements

Symbols/Pictograms

Signal word
Hazard Statements

Danger
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H341 - Suspected of causing genetic defects
 H350 - May cause cancer

Contains Formaldehyde
Precautionary Statements

P264 - Wash skin thoroughly after handling
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P308 + P313 - IF exposed or concerned: Get medical advice/attention
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P337 + P313 - If eye irritation persists: Get medical advice/attention
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P405 - Store locked up
 P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1 Mixture

Chemical Name	EC No	CAS No	Weight-%	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glyoxal	203-474-9	107-22-2	39.5-40.5	Xn; R20 Xi; R36/37/38 R43 Muta.Cat.3; R68	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT Single Exp. 3 (H335) Skin Sens. 1 (H317) Muta. 2 (H341)
Glycolic acid		79-14-1	0.3	Not classified	Not classified
Formic acid	200-579-1	64-18-6	0.15	C; R35	Skin Corr. 1A (H314)
Formaldehyde	200-001-8	50-00-0	0.1	T; R23/24/25 C; R34 Carc.Cat.3; R40 R43	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Carc. 2 (H351) Eye Dam. 1
Ethylene glycol	203-473-3	107-21-1	0.1	Xn; R22	Acute Tox. 4 (H302)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth Get medical attention Never give anything by mouth to an unconscious person

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

- Causes eye irritation
- Skin irritation
- May cause allergic skin reaction
- Suspected of causing genetic defects
- May cause cancer

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors

5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

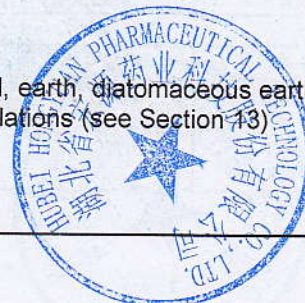
- Evacuate personnel to safe areas
- Ensure adequate ventilation, especially in confined areas
- Remove all sources of ignition
- Avoid contact with skin, eyes and inhalation of vapors
- Use personal protection recommended in Section 8

6.2. Environmental precautions

- Local authorities should be advised if significant spillages cannot be contained
- Prevent entry into waterways, sewers, basements or confined areas

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13)

6.4. Reference to other sections

See Section 7 for more information
 See section 8 for more information
 See section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice
 Ensure adequate ventilation, especially in confined areas
 Avoid contact with skin, eyes or clothing
 Wash contaminated clothing before reuse
 Take precautionary measures against static discharges
 Avoid generation of dust
 Do not breathe dust/fume/gas/mist/vapors/spray
 Do not eat, drink or smoke when using this product
 Wash thoroughly after handling
 Use personal protection recommended in Section 8

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place
 Keep away from heat
 Keep locked up and out of reach of children
 Keep away from food, drink and animal feeding stuffs
 Store in accordance with local regulations

7.3. Specific end use(s)

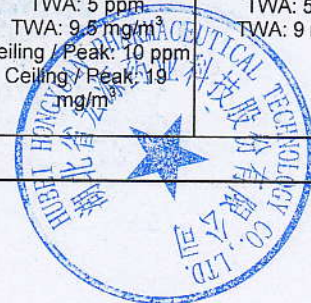
Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
Glyoxal (CAS #: 107-22-2)	-	-	-	Ceiling: 0.2 ppm Ceiling: 0.5 mg/m ³	-
Formic acid (CAS #: 64-18-6)	5 ppm 9.4 mg/m ³ 10 ppm STEL 19 mg/m ³ STEL	STEL 5 ppm STEL 9 mg/m ³ TWA: 5 ppm TWA: 9 mg/m ³ Ceiling 5 ppm Ceiling 9 mg/m ³	-	TWA: 5 ppm TWA: 9 mg/m ³	TWA: 5 ppm TWA: 9 mg/m ³
Formaldehyde (CAS #: 50-00-0)	1 ppm 1.2 mg/m ³ 2 ppm STEL 2.5 mg/m ³ STEL	Skin STEL 0.5 ppm STEL 0.6 mg/m ³ TWA: 0.5 ppm TWA: 0.6 mg/m ³ Ceiling 0.5 ppm Ceiling 0.6 mg/m ³	-	Ceiling: 0.3 ppm Ceiling: 0.4 mg/m ³	-
Ethylene glycol (CAS #: 107-21-1)	10 mg/m ³ 20 ppm 52 mg/m ³ 40 ppm STEL 104 mg/m ³ STEL Skin	Skin STEL 20 ppm STEL 52 mg/m ³ TWA: 10 ppm TWA: 26 mg/m ³	-	TWA: 10 ppm TWA: 26 mg/m ³ TWA: 10 mg/m ³ Skin	S* TWA 20 ppm TWA 52 mg/m ³ STEL 40 ppm STEL 104 mg/m ³

Chemical Name	Latvia	France	Finland	Germany	Italy
Glyoxal (CAS #: 107-22-2)	-	-	TWA: 0.02 mg/m ³	Skin	-
Formic acid (CAS #: 64-18-6)	TWA: 5 ppm TWA: 9 mg/m ³	TWA: 5 ppm TWA: 9 mg/m ³	TWA: 3 ppm TWA: 5 mg/m ³ STEL: 10 ppm STEL: 19 mg/m ³	TWA: 5 ppm TWA: 9.5 mg/m ³ Ceiling / Peak: 10 ppm Ceiling / Peak: 19 mg/m ³	TWA: 5 ppm TWA: 9 mg/m ³



Formaldehyde (CAS #: 50-00-0)	TWA: 0.5 mg/m ³	TWA: 0.5 ppm STEL: 1 ppm	TWA: 0.3 ppm TWA: 0.37 mg/m ³ STEL: 1 ppm STEL: 1.2 mg/m ³ Ceiling: 1 ppm Ceiling: 1.2 mg/m ³	TWA: 0.3 ppm TWA: 0.37 mg/m ³ Ceiling / Peak: 0.6 ppm Ceiling / Peak: 0.74 mg/m ³ Skin	-
Ethylene glycol (CAS #: 107-21-1)	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Skin	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³	TWA: 20 ppm TWA: 50 mg/m ³ STEL: 40 ppm STEL: 100 mg/m ³ Skin	TWA: 10 ppm TWA: 26 mg/m ³ Ceiling / Peak: 20 ppm Ceiling / Peak: 52 mg/m ³ Skin	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Skin

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Glyoxal (CAS #: 107-22-2)	-	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	-	-
Formic acid (CAS #: 64-18-6)	STEL: 15 mg/m ³ TWA: 5 mg/m ³	STEL: 10 ppm TWA: 5 ppm	TWA: 5 ppm TWA: 9 mg/m ³	STEL: 10 ppm STEL: 19 mg/m ³ TWA: 5 ppm TWA: 9.5 mg/m ³	STEL: 5 mg/m ³
Formaldehyde (CAS #: 50-00-0)	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³	Ceiling: 0.3 ppm	STEL: 0.3 ppm STEL: 0.37 mg/m ³	STEL: 0.6 ppm STEL: 0.74 mg/m ³ TWA: 0.3 ppm TWA: 0.37 mg/m ³	STEL: 0.5 mg/m ³ TWA: 0.15 mg/m ³
Ethylene glycol (CAS #: 107-21-1)	STEL: 50 mg/m ³ TWA: 15 mg/m ³	Ceiling: 100 mg/m ³	S* STEL: 40 ppm STEL: 104 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³	Skin STEL: 20 ppm STEL: 52 mg/m ³ TWA: 10 ppm TWA: 26 mg/m ³	Skin STEL: 104 mg/m ³ TWA: 52 mg/m ³ TWA: 10 mg/m ³

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glyoxal (CAS #: 107-22-2)	-	-	TWA: 0.1 mg/m ³ inhalable fraction and vapor	-	-
Formic acid (CAS #: 64-18-6)	TWA: 5 ppm TWA: 9 mg/m ³ STEL: 10 ppm STEL: 18 mg/m ³	STEL: 15 ppm STEL: 28.8 mg/m ³ TWA: 5 ppm TWA: 9.6 mg/m ³	STEL: 10 ppm TWA: 5 ppm	TWA: 5 ppm TWA: 9 mg/m ³ (vacated) TWA: 5 ppm (vacated) TWA: 9 mg/m ³	IDLH: 30 ppm TWA: 5 ppm TWA: 9 mg/m ³
Formaldehyde (CAS #: 50-00-0)	TWA: 0.5 ppm TWA: 0.6 mg/m ³ Ceiling: 1 ppm Ceiling: 1.2 mg/m ³ STEL: 1.5 ppm STEL: 1.8 mg/m ³	STEL: 2 ppm STEL: 2.5 mg/m ³ TWA: 2 ppm TWA: 2.5 mg/m ³	Ceiling: 0.3 ppm	TWA: 0.75 ppm (vacated) TWA: 3 ppm unless specified in 1910.1048 (vacated) STEL: 10 ppm 30 min unless specified in 1910.1048 (vacated) Ceiling: 5 ppm unless specified in 1910.1048 STEL: 2 ppm see 29 CFR 1910.1048	IDLH: 20 ppm Ceiling: 0.1 ppm 15 min TWA: 0.016 ppm
Ethylene glycol (CAS #: 107-21-1)	TWA: 10 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ Skin Ceiling: 25 ppm STEL: 104 mg/m ³ STEL: 40 ppm	STEL: 40 ppm STEL: 104 mg/m ³ STEL: 30 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ TWA: 10 mg/m ³ Skin	Ceiling: 100 mg/m ³ aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³	-

Derived No Effect Level (DNEL)

Glyoxal:

Inhalation

Worker - inhalative, long-term - systemic
 Worker - inhalative, long-term - local
 Consumer - inhalative, long-term - systemic
 Consumer - inhalative, long-term - local

5.29 mg/m³
 0.04 mg/m³
 1.3 mg/m³
 0.01 mg/m³



Dermal	Worker - dermal, long-term - systemic	10.8 mg/kg bw/day
Oral	Consumer - dermal, long-term - systemic	5.4 mg/kg bw/day
	Consumer - oral, long-term - systemic	0.6 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Glyoxal:

Fresh Water	0.319 mg/L
Sea Water	0.0319 mg/L
Sea sediment	0.0685 mg/kg sediment dw
Soil	4.06 mg/kg soil dw
Impact on Sewage Treatment	0.685 mg/kg sediment dw

8.2. Exposure controls**Engineering Controls**

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles)
Hand Protection	Wear protective gloves
Skin and body protection	Suitable protective clothing
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Color	No information available
Odor	No information available
Odor Threshold	Not determined
pH	2.0
Melting point/freezing point	15 °C
Boiling point / boiling range	51 °C
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Flammability Limit in Air	Not determined
Vapor Pressure	Not determined
Vapor density	Not determined
Density	1.27 g/cm ³
Relative density	Not determined
Specific gravity	Not determined
Water solubility	Miscible
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

9.2. Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

None under normal use conditions

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glyoxal (CAS #: 107-22-2)	>2000 - 5000 mg/kg bw	> 2000 mg/kg bw	2.44 mg/L/4 h (95% CL: 2.23 - 2.59)
Formic acid (CAS #: 64-18-6)	= 730 mg/kg (Rat)	-	= 15 g/m ³ (Rat) 15 min
Ethylene glycol (CAS #: 107-21-1)	= 4000 mg/kg (Rat)	-	-
Formaldehyde (CAS #: 50-00-0)	= 500 mg/kg (Rat)	= 270 mg/kg (Rabbit)	= 0.578 mg/L (Rat) 4 h

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Sensitization

May cause sensitization by skin contact.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

Chemical Name	European Union	IARC
Formaldehyde (CAS #: 50-00-0)	Carc. 2	Group 1

Reproductive toxicity

Not classified.

STOT - single exposure

No information available.

STOT - repeated exposure

Not classified.

Aspiration hazard

Not classified.



SECTION 12: Ecological information**12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Glyoxal (CAS #: 107-22-2)	347.1 mg/L/72h	464 - 681 mg/L/96h	404 mg/L/48 h
Formic acid (CAS #: 64-18-6)	25: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 26.9: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	175: 24 h <i>Lepomis macrochirus</i> mg/L LC50 static	120: 48 h <i>Daphnia magna</i> mg/L EC50 138 - 165.6: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Formaldehyde (CAS #: 50-00-0)	-	22.6 - 25.7: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1510: 96 h <i>Lepomis macrochirus</i> µg/L LC50 static 41: 96 h <i>Brachydanio rerio</i> mg/L LC50 static 0.032 - 0.226: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 flow-through 100 - 136: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 23.2 - 29.7: 96 h <i>Pimephales promelas</i> mg/L LC50 static	2: 48 h <i>Daphnia magna</i> mg/L LC50 11.3 - 18: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Ethylene glycol (CAS #: 107-21-1)	6500 - 13000: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	41000: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 14 - 18: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 static 27540: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 40761: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 40000 - 60000: 96 h <i>Pimephales promelas</i> mg/L LC50 static 16000: 96 h <i>Poecilia reticulata</i> mg/L LC50 static	46300: 48 h <i>Daphnia magna</i> mg/L EC50

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
Glyoxal (CAS #: 107-22-2)	-1.15 @ 23 °C
Formic acid (CAS #: 64-18-6)	-0.54
Formaldehyde (CAS #: 50-00-0)	0.35
Ethylene glycol (CAS #: 107-21-1)	-1.93

Chemical Name	Bioconcentration factor (BCF)
Glyoxal (CAS #: 107-22-2)	3.2
Formic acid (CAS #: 64-18-6)	0.22

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)

This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations
 Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations

SECTION 14: Transport information

- 14.1 UN Number Not regulated
- 14.2 Proper shipping name Not regulated
- 14.3 Hazard Class Not regulated
- 14.4 Packing Group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions No information available
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

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

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
 Take note of Directive 94/33/EC on the protection of young people at work
 Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

Component	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Glyoxal 107-22-2 (39.5-40.5)	X	X	X	X	X	X	X	X
Glycolic acid 79-14-1 (0.3)	X	X	X	X	X	X	X	X
Formic acid 64-18-6 (0.15)	X	X	X	X	X	X	X	X
Formaldehyde 50-00-0 (0.1)	X	X	X	X	X	X	X	X
Ethylene glycol 107-21-1 (0.1)	X	X	X	X	X	X	X	X

"-" Not Listed
 "X" Listed

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Issue Date 29-Apr-2015



Revision date 29-Apr-2015
Revision Note Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average)
STEL - STEL (Short Term Exposure Limit)
Ceiling - Maximum limit value
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Full text of H-Statements referred to under section 3

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H341 - Suspected of causing genetic defects
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H350 - May cause cancer

Full text of R-phrases referred to under sections 2 and 3

R68 - Possible risk of irreversible effects
R43 - May cause sensitization by skin contact
R20 - Harmful by inhalation
R35 - Causes severe burns
R34 - Causes burns
R40 - Limited evidence of a carcinogenic effect
R36/37/38 - Irritating to eyes, respiratory system and skin
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

Disclaimer

The information provided in this Material 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.

----- End of Safety Data Sheet -----

