



# Safety Data Sheet

in accordance with Regulation (EC) No. 1907/2006 (REACH)

## Coffee machine descaler

Version number: GHS 6.0

Revision: 27.01.2021

Replaces the version from: 05.01.2021 (GHS 5)

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

#### 1.1 Product identification

Trade name	Coffee machine descaler
Registration number (REACH)	not relevant (mixture)
Product code(s)	17098

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

Relevant identified uses	Cleaning agent
	Consumer use

#### 1.3 Details regarding the provider of the safety data sheet

123clean  
KONINGSBELTWEG 52  
1329 AK Almere  
Netherlands

Tel: 0294-787125  
Fax: 0294-787126  
Email: INFO@123SCHOON.NL

Emergency information service

For the emergency services  
This number is for medical emergencies only.

Poison Control Center		
Country	Name	Telephone
The Netherlands	National Poison Information Center (NVIC)	+31 (0)30 274 88 88

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

column	Hazard class	Category	Hazard class and category	Hazard indication
3.3	serious eye damage/irritation	2	Eye Irrit. 2	H319

See SECTION 16 for full text of H and EUH statements.

#### 2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 (CLP)

- Signal word - warning

Pictograms

GHS07



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### - Hazard statements

H319 Causes serious eye irritation.

### - Safety recommendations

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P264 Wash hands thoroughly after working with this product.

P305+P351+P338 IF IN EYES: Rinse carefully with water for several minutes. remove contact lenses, if possible; keep rinsing.

P337+P313 If eye irritation persists: consult a doctor.

## 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are considered to be a PBT or vPvB substance after assessment.


## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

Name of the dust	Identification	Weight %	Classification in accordance with GHS	Icon-men	Nuts	Specific concentration limits	M-Factors
Citric acid	CAS No 5949-29-1 77-92-9  EC No 201-069-1  REACH reg. no. 01- 2119457026 -42-xxxx	10 – < 2 5	Eye Irrit. 2 / H319				

See SECTION 16 for full text of H statements.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General remarks

Do not leave the victim unattended. Move victim out of the danger zone. Keep the victim warm, calm and covered. In the event of an accident or if you feel unwell, consult a doctor immediately (if possible).  
show this label). Remove contaminated clothing immediately. If in doubt or if symptoms persist, consult a doctor  
consult. If the victim is unconscious, place the victim in a stable side position. Do not administer anything by mouth.

#### When inhaled

In case of irregular breathing or respiratory arrest, consult a doctor immediately and administer first aid. For fresh air to assure.

#### In case of skin contact

Wash with plenty of soap and water.

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With eye contact

Remove contact lenses, if possible. Continue rinsing. Rinse with clean, flowing water for at least 10 minutes while holding the eyelids open.

When swallowed

Rinse mouth with water (only if the person is conscious). DO NOT induce vomiting.

Self-protection for the first responder

Measures for sufficient ventilation. Wear suitable protective clothing, gloves and eye/face protection.

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

No symptoms or effects are known so far.

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

no

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Spray water, Alcohol resistant foam, BC powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Full water jet

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion avoid breathing fumes. Adjust fire-fighting measures to the environment. Do not allow fire extinguishing water to flow into sewers or surface water. Collect contaminated fire extinguishing water separately. Fight fire with normal precautions from a reasonable distance. Self-contained breathing apparatus (SCBA). SCBA with a chemical protective suit if personal (direct) contact is likely.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For persons other than emergency services

Follow emergency procedures such as the need to evacuate the danger area or consult an expert. Get people to safety. Measures for sufficient ventilation. Avoid skin contact. Do not inhale spray. Collection and use of expertise.

For the emergency services

Wear breathing apparatus when exposed to vapours/dusts/aerosols/gases. Wearing appropriate protective equipment (including the personal protective equipment in section 8 of the safety data sheet) to prevent contamination of the skin, eyes and own clothing.

### 6.2 Environmental Precautions

Avoid allowing the product to enter drains, surface water or groundwater. Contaminated washing water retain and remove. Notify the responsible authority if the substance enters the water or sewage system ended up.

### 6.3 Methods and material for containment and cleaning up

Advice on how to contain the spilled product

Covering drains

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### Advice on how to clean up the spill

Wipe with absorbent material (e.g. cloth, fleece). Clean up leaks/spills: sawdust, diatomite, sand, universal binder

### Appropriate containment methods

Use of absorbent materials.

### Other information relating to the discharge or release

Place in suitable containers for disposal. Ventilate the 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 of the substance or mixture

#### Recommendations

- Measures to prevent fire and aerosol or dust formation  
Use of local and general ventilation. Use only in well-ventilated areas.
- Handling incompatible substances and mixtures
- Keep away from  
Alkaline products

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink or smoke in places where work is taking place. Contaminated clothing and remove protective equipment before entering eating areas. Do not eat or drink together store chemicals. Do not use packaging intended for foodstuffs for chemical substances. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Controlling the consequences

Protect from sunlight.

#### Protect from external exposure, such as

Monarch

- Compatible packaging  
Store only in the original packaging.

### 7.3 Specific end use(s).

Cleaning agent. Consumer use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limits (workplace exposure limits)

This information is not available.

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Relevant PNECs of components of the mixture						
Name of the substance	CAS No	End point	Threshold value	Organism	Environmental compartments	Exposure duration
Citric acid	5949-29-1 77-92-9	PNEC	0.44 mg /l	aquatic men	fresh water	short term (one-off)
Citric acid	5949-29-1 77-92-9	PNEC	0.044 mg /l	aquatic men	seawater	short term (one-off)
Citric acid	5949-29-1 77-92-9	PNEC	1,000 mg /l	aquatic men	sewage treatment plants (STP)	short term (one-off)
Citric acid	5949-29-1 77-92-9	PNEC	34.6 mg/kg	aquatic men	freshwater sediment	short term (one-off)
Citric acid	5949-29-1 77-92-9	PNEC	3.46 mg/kg	aquatic men	seawater sediment	short term (one-off)
Citric acid	5949-29-1 77-92-9	PNEC	33.1 mg/kg	terrestrial organisms	soil	short term (one-off)

### 8.2 Exposure controls

#### Appropriate technical measures

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection. Wear safety glasses with side shields.

##### Skin protection

##### - Hand protection

Wear suitable gloves. Chemical-resistant gloves tested according to EN 374 are suitable. Determine leak tightness/impermeability before use. If you reuse the gloves, clean them before taking them off and then let it air well. It is recommended to check chemical resistance in case of special applications of the above-mentioned safety gloves together with the glove supplier.

##### - Type of material

NBR: acrylonitrile butadiene rubber

##### - Material thickness

&gt;0.35mm

##### - Breakthrough time of the glove material

&gt;480 minutes (permeation level: 6)

##### - Other protective equipment

Protective clothing against liquid chemicals. Footwear for protection against chemicals. Preventive skin protection (skin protection creams) is recommended. Take rest periods for skin regeneration. Wash hands thoroughly after use.

##### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Type: ABEK (combination filter for gases and fumes, color code: brown/gray/yellow/green).

##### Environmental exposure controls

Take appropriate measures to prevent spread in the environment. Avoid allowing the product to enter drains, surface water or groundwater.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	amber
Odor	odorless
Melting/freezing point	0°C
Boiling point or initial boiling point and boiling range	100°C
Flammability	This material is flammable, but will not easily catch fire
Lower and upper explosion limits	not quite
Flash point	not quite
Auto-ignition temperature	not quite
Decomposition temperature	not quite
PH value	2 (20 °C) (acid)
Kinematic viscosity	not quite

#### Solubility(ies)

Solubility in water	can be mixed in any proportion
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#### Partition coefficient

Partition coefficient n-octanol/water (log value)	This information is not available
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Vapor pressure	2.339 kPa at 20 °C (calculated value, based on a component of the mixture)
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#### Density and/or relative density

Density	1.09 g /cm <sup>3</sup> at 20 °C
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Particle characteristics	No data available
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#### 9.2 Other information

Information on physical hazard classes	hazard classes according to GHS (physical hazards): not relevant
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### Other safety features

Miscibility	Completely miscible with water.
VOC content	0%

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

For incompatible products: see "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See under "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

There are no known specific conditions that should be avoided.

### 10.5 Incompatible materials

Bases, Oxidizing agents (oxidizing)

### 10.6 Hazardous decomposition products

Known and reasonably expected hazardous decomposition products resulting from use, storage, discharge and heating are produced are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

No test data is available for the mixture as a whole.

#### Classification procedure

The method for classifying mixtures based on the components of the mixture (sum formula).

#### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Cannot be classified as acutely toxic.

Acute toxicity of the components in the mixture					
Name of the substance	CAS No	Exposure route	Endpoint	Value	Species
Citric acid	5949-29-1 77-92-9	oral	LD50	5,400 mg/kg	mouse
Citric acid	5949-29-1 77-92-9	dermal	LD50	>2,000 mg /kg	rat

##### Skin corrosion/irritation

Cannot be classified as corrosive/irritating to the skin.

##### Serious eye damage/irritation

Causes serious eye irritation.

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### Sensitization of the respiratory tract or skin

Cannot be classified as an inhalation or skin allergen.

### Germ cell mutagenicity

Cannot be classified as a germ cell mutagen (mutagen).

### Carcinogenicity

Cannot be classified as carcinogenic.

### Reproductive toxicity

Cannot be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as toxic to specific target organs (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as specific target organ toxic (repeated exposure).

### Inhalation hazard

Cannot be classified as dangerous due to aspiration.

## 11.2 Information about other hazards

There is no further information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### (Acute) aquatic toxicity of components of the mixture

Name of the substance	CAS No	Endpoint	Value	Species	Exposure duration
Citric acid	5949-29-1 77-92-9	LC50	440 mg /l	fish	48 h

#### (Chronic) aquatic toxicity of components of the mixture

Name of the substance	CAS No	Endpoint	Value	Species	Exposure duration
Citric acid	5949-29-1 77-92-9	LC50	1,535 mg /l	invertebrate aquatic organisms	24 h

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulation

No data available.

### 12.4 Mobility in the soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

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### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste disposal methods

Information regarding waste water discharge

Do not throw waste into the sink. Avoid release into the environment. Ask for special instructions/safety card.

Waste treatment of containers/packaging

Completely emptied packaging can be recycled. Contaminated packaging can be treated like the substance itself.

### Comments

Please pay attention to the relevant national or regional regulations. Waste is separated into categories that can be treated separately by local or national waste management authorities.

## SECTION 14: Transport information

### 14.1 UN number

not subject to transport regulations

### 14.2 Proper shipping name according to UN model regulations

not assigned

### 14.3 Transport hazard class(es)

no

### 14.4 Packing group

not assigned

### 14.5 Environmental Hazards

not dangerous for the environment, according to the regulations for the transport of dangerous goods

### 14.6 Special precautions for the user

There is no further information.

### 14.7 Bulk maritime transport in accordance with IMO instruments

The cargo is not intended to be transported in bulk.

### Information for each of the UN regulations

#### Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ADN) - Additional information

not assigned

#### International Code for the Carriage of Dangerous Goods by Sea (IMDG) - Supplementary information

Not subject to the IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

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### SECTION 15: Regulations

#### 15.1 Safety, health and environmental regulations and legislation specific to the substance or substance mixture

##### Relevant provisions of the European Union (EU)

None of the ingredients are listed.

##### Restrictions according to REACH, Annex XVII

Hazardous substances with restrictions (REACH, Annex XVII)				
Name of the substance	Name according to inventory	CAS No	Limit	No.
Coffee machine descaler	this product meets the criteria for classification of Regulation No. 1272/2008/EC		R3	3
Citric acid monohydrate	this product meets the criteria for classification of Regulation No. 1272/2008/EC		R3	3

##### Legend

- R3
- May not be used: - in decorative objects intended to obtain light or color effects through different phases, for example in atmospheric lamps and ashtrays, - in jokes and joke articles, - in games for one or more persons or in all objects intended to be used as such, even if they function as a decorative object.
  - Articles which do not comply with point 1 shall not be placed on the market.
  - Shall not be placed on the market if they contain a coloring matter, unless this is required for tax reasons or a fragrance or both, and if they:
    - can be used as fuel in decorative oil lamps intended for the general public, and
    - are hazardous by inhalation and are labeled with R65 or H304.
  - Decorative oil lamps intended for the general public may only be placed on the market if they comply with the European standard for decorative oil lamps adopted by the European Committee for Standardization (CEN). (EN 14059).
  - Without prejudice to the application of other Community provisions relating to the classification, packaging and labeling of hazardous substances and mixtures, suppliers must ensure that the products comply with the following requirements before they are placed on the market: (a) lamp oils labeled R65 or H304 and intended for the general public must be visible, readable and bear indelibly the following words: "Lamps filled with this liquid should be kept out of the reach of children to hold"; and, by 1 December 2010, 'A small sip of lamp oil - or even sucking on the wick of lamps - can cause life-threatening lung damage'; (b) Barbecue lighter fluids labeled R65 or H304 and intended for the general public must, by 1 December 2010, be legibly and indelibly marked: 'A small sip of lighter fluid can cause life-threatening lung damage'; (c) lamp oils and barbecue lighter fluids labeled R65 or H304 and intended for the general public shall be packed in black opaque containers of a maximum capacity of 1 liter by 1 December 2010.
  - By 1 June 2014, the Commission shall request the European Chemicals Agency in accordance with Article 69 of this Regulation, to compile a dossier with the aim of banning, if necessary, lighter fluids for barbecues and fuel for decorative lamps labeled with R65 or H304 and intended for the general public.
  - Natural or legal persons who place on the market for the first time lamp oils and barbecue lighter fluids labeled R65 or H304 shall provide the competent authority in the Member State concerned with December 1, 2011 and every year thereafter data on alternatives to lamp oils and barbecue lighter fluids labeled with R65 or H304. The Member States shall make that information available to the Commission.

#### List of substances subject to authorization (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

#### Decorative Paints Directive (2004/42/EC)

VOC content	0%
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#### Industrial Emission Directive (VOC, 2010/75/EU)

VOC content	0%
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### Directive 2011/65/EU on the restriction of the use of certain dangerous substances electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

### Regulation 166/2006/EC establishing a European emissions register and transfer of pollutants (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

none of the ingredients are listed

### National regulations (Netherlands)

General Assessment Methodology for Substances and Preparations (ABM)

Water hazards and remediation efforts		
Water heaviness	Indication of water hazard	Remediation effort
B (4)	little harmful to aquatic organisms	b

### SZW list of CMR effects

none of the ingredients are listed

### National inventories

Country	List	Status
EU	REACH Reg.	all ingredients are listed

#### Legend

REACH Reg. REACH registered substances

## 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out by the supplier for this mixture.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

column	Previous entry (text/value)	Current entry (text/value)	Safety re-levante
1.2	Relevant identified uses: Cleaning agent Industrial use Professional use Consumer use	Relevant identified uses: Cleaning agent Consumer use	Yes
1.2	Uses advised against: Not to be used for private purposes (household).		Yes
2.2		- Safety recommendations: change in the list (table)	Yes
7.3	Specific end use: Cleaning agent. Industrial use. Professional use. Consumer use.	Specific end use: Cleaning agent. Consumer use.	Yes

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column	Previous entry (text/value)	Current entry (text/value)	Safety re- levante
9.1	Vapor density: This information is not available		Yes
9.1	Relative vapor density: not relevant (liquid)		Yes
9.2	Information on physical hazard classes: hazard classes according to GHS (physical hazards):	Information on physical hazard classes: Hazard classes according to GHS (physical hazards): not relevant	Yes
16	Important literature references and data sources:  Regulation (EC) No 1272/2008 on the classification, labeling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006  (REACH), amended by 2015/830/EU. Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ ADN). International Code for the Carriage of hazardous substances by sea (IMDG). Dangerous Goods Regulations (DGR) for aviation (IATA).	Important literature references and data sources:  Regulation (EC) No 1272/2008 on the classification, labeling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006  (REACH), amended by 2020/878/EU. Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ ADN). International Code for the Carriage of hazardous substances by sea (IMDG). Dangerous Goods Regulations (DGR) for aviation (IATA).	Yes

### Abbreviations and acronyms

Abbr.	Descriptions of the abbreviations used
ADN	European Agreement concerning the International Carriage of Dangerous Goods (European Agreement concerning the International Carriage of Dangerous Goods) on inland waterways)
ADR	Accord européen relatif au transport Internationale des marchandises Dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (database for chemical substances and their unique number, the CAS registration number)
catalog no.	The catalog number is the identifier used in Part 3 of Annex VI to Regulation (EC) No 1272/2008
CLP	Regulation (EC) No 1272/2008 on Classification, Labeling and Packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or Reproductive Toxic
DGR	Dangerous Goods Regulations, regulations for the transport of dangerous goods, see IATA/DGR
EC No	The EC register (EINECS, ELINCS and the NLP register) is the source for the seven-digit EC number as a key figure for substances (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances commercial chemicals)
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Causes serious eye damage
Eye Irrit.	Irritating to eyes
GHS	"Globally Harmonized System of Classification and Labeling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for aviation (IATA)

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Abbr.	Descriptions of the abbreviations used
ICAO	International Civil Aviation Organization
IMDG	International Code for the Carriage of Dangerous Goods by Sea (IMDG Code)
LC50	Lethal concentration 50%: is the concentration value in air of the material at which 50% of the test objects die during a certain time interval
LD50	Lethal dose 50%: the LD50 corresponds to the dose of a tested substance that kills 50% of the test objects during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted concentration without effect
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals authorization and restrictions of chemicals)
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation concerning the international carriage of dangerous goods by rail)
SCBA	Self-contained breathing apparatus
SVHC	Substance of very high concern
FOX	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative

### Key literature references and data sources

Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ADN). International Code for the Carriage of Dangerous Goods by Sea (IMDG). Dangerous Goods Regulations (DGR) for aviation (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on the results of the tested mixtures.

Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

### List of relevant sentences (code and full text as stated in chapters 2 and 3)

Code	Text
H319	Causes serious eye irritation.

### Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor any of its subsidiaries accepts any liability for the accuracy and completeness of the information contained herein. The user is solely responsible for the final decision as to whether or not a particular material is suitable. Each of the materials may pose unknown risks. Great care must therefore be exercised in its use. Although some risks are identified in this hazard document described, we cannot guarantee that these are the only existing risks.