

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 6/27/2019 Version: 1.0

	nce/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: Acetic acid SH HPLC grade	
Chemical name	: acetic acid %	
EC Index-No.	: 607-002-00-6	
EC-No.	: 200-580-7	
CAS-No.	: 64-19-7	
Product code	: 90023504	
Formula	: C2H4O2	
Product group	: Raw material	
1.2. Relevant identified uses of the substant		
1.2.1. Relevant identified uses	ů – – – – – – – – – – – – – – – – – – –	
Main use category	: Laboratory use,Industrial use,Professional use	
Industrial/Professional use spec	: For professional use only	
Use of the substance/mixture		
	: For analytical purposes Scientific research and development Not for human consumption or veterinary purposes.	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety data	a sheet	
Supplier		
Scafell Organics Molekula Ltd Lingfield Way Darlington - England		
T +44 (0) 1949 823777 / +44 (0) 7590 545705 info@molekula.com / kbowen@molekula.com - www	/.molekula.com	
1.4. Emergency telephone number		
	+44 (0) 7590 545705	
	+44 (0) 7590 545705	
Emergency number SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	ıre	
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Emergency number SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Flammable liquids, Category 3	Jre 272/2008 [CLP]	
Emergency number :	Jre 272/2008 [CLP] H226	
Emergency number :	Jre 272/2008 [CLP] H226	
Emergency number :	ure 272/2008 [CLP] H226 H314	
Emergency number :	Jre 272/2008 [CLP] H226 H314 Skin Irrit. 2, H315	
Emergency number :	Jre 272/2008 [CLP] H226 H314 Skin Irrit. 2, H315 Eye Irrit. 2, H319	
Emergency number: · ·SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Flammable liquids, Category 3 Skin corrosion/irritation, Category 1A Full text of H statements : see section 16 Specific concentration limits: ($10 = < C < 25$) ($10 = < C < 25$) ($25 = < C < 90$)	Jre 272/2008 [CLP] H226 H314 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Corr. 1B, H314	
Emergency number :	Jre 272/2008 [CLP] H226 H314 Skin Irrit. 2, H315 Eye Irrit. 2, H319	
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Emergency number: · ·SECTION 2: Hazards identification2.1. Classification of the substance or mixtuClassification according to Regulation (EC) No. 1Flammable liquids, Category 3Skin corrosion/irritation, Category 1AFull text of H statements : see section 16Specific concentration limits: $(10 = < C < 25)$ $(25 = < C < 90)$ $(C >= 90)$ Adverse physicochemical, human health and envNo additional information available	ure 272/2008 [CLP] H226 H314 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Corr. 1B, H314 Skin Corr. 1A, H314	
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Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
	P220 - Keep away from clothing and other combustible materials.
	P280 - Wear protective clothing, eye protection, face protection, protective gloves.
	P302+P352 - IF ON SKIN: Wash with plenty of 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.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients 3.1. Substances		
Name	Product identifier	%
Acetic acid SH HPLC grade	(CAS-No.) 64-19-7 (EC-No.) 200-580-7 (EC Index-No.) 607-002-00-6	100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.	
First-aid measures after inhalation	 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention. 	
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.	
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.	
Symptoms/effects after skin contact	: Causes severe burns. May produce skin irritation, blistering, ulcers, and deep scarring.	
Symptoms/effects after eye contact	: Causes serious eye damage. Blurred vision. May cause severe chemical burns to skin and cornea.	
Symptoms/effects after ingestion	: Swallowing this material may result in health hazard. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.	
4.3. Indication of any immediate medical att	ention and special treatment needed	

Get immediate medical advice/attention.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Sand.
Unsuitable extinguishing media	: Do NOT use water jet.
5.2. Special hazards arising from the substa	ince or mixture
Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Wear recommended personal protective equipment. Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Warn all persons of toxic hazard.

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SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Do not handle until all safety precautions have been read and understood. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Keep away from combustible materials.	
6.1.1. For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.	
Measures in case of dust release	: Shelter from vapours by keeping upwind. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Special attention should be given to low areas/pits where flammable vapours can accumulate.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.		
6.3. Methods and material for containment	and cleaning up	
For containment	: Collect spillage. Contain the spilled material by bunding.	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Try to stop release if without risk.	

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Avoid formation of vapours. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Ensure that there is a suitable ventilation system. Do not handle in a confined space.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas. Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use. Moisture sensitive. Protect from moisture.
Incompatible products	: Strong oxidizing agents. Hydroxides. Metals. Peroxides. Permanganates. Amines. alcohols. Nitric acid.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources. open flames. sparks. Moisture. Water, humidity.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Keep away from combustible materials. Store below 20 °C. Store in dry protected location to prevent any moisture contact.
7.3 Specific end use(s)	

7.3. Specific end use(s) For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
No additional information available
8.2. Exposure controls
Appropriate engineering controls:
Handle in accordance with good industrial hygiene and safety procedures. Floors should be impervious, resistant to liquids and easy to clean.
Personal protective equipment:
Avoid all unnecessary exposure.
Materials for protective clothing:
Wear suitable protective clothing, gloves and eye/face protection

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Hand protection: The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374 Туре Material Permeation Thickness (mm) Penetration Standard Fluoroelastomer 6 (> 480 minutes) 0.7 EN 374 Disposable gloves (FKM) Eye protection: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against liquid splashes. Characteristics Туре Use Standard Safety goggles, Face shield Droplet, vapours tightly fitting safety goggles, With EN 166 side shields Skin and body protection: Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use Туре Standard Total impervious protective suits, gloves, and boots must be worn to EN 14605 prevent any contact with the product, Flame retardant antistatic protective clothing **Respiratory protection:** Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended Condition Standard Device Filter type

EN 14387

Air-Purifying Respirator (APR), reusable		Moist condition, Mist formation, Protection for Liquid particles, Vapour protection
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Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Molecular mass	: 60.05 g/mol	
Colour	: Colourless.	
Odour	: No data available.	
Odour threshold	: No data available	
рН	: 2.4	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 16.2 °C	
Freezing point	: No data available	
Boiling point	: 117 - 118 °C	
Flash point	: 40 °C closed cup.	
Auto-ignition temperature	: 485 °C	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Flammable	
Vapour pressure	: No data available	
Vapour pressure at 50 °C	: 73.3 hPa	
Relative vapour density at 20 °C	: No data available	
Relative density	: 1.05 g/cm3	
Solubility	: No data available	
Log Pow	: -0.17	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	

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Lower explosive	limit	(LEL)
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Upper explosive limit (UEL)

: 19.9 vol %

: 4 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour. **10.2. Chemical stability**

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from moisture. **10.5. Incompatible materials**

Strong oxidizers. Alcohols. Amines. Carbonates. Hydroxide. Metals. Nitric acid. Permanganates.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2).

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
	Not classified
······································	Not classified
Acute toxicity (inhalation) :	Not classified
Acetic acid SH HPLC grade (64-19-7)	
LD50 oral rat	3310 mg/kg
LD50 dermal rabbit	1112 mg/kg
LC50 inhalation rat (mg/l)	11.4 mg/l/4h
Skin corrosion/irritation :	Causes severe skin burns and eye damage.
	pH: 2.4
Additional information :	Based on available data, the classification criteria are not met
	Serious eye damage, category 1, implicit
	pH: 2.4
	Based on available data, the classification criteria are not met
	Not classified
	Based on available data, the classification criteria are not met
	Not classified
	Based on available data, the classification criteria are not met
	Not classified
Additional information :	Based on available data, the classification criteria are not met
Reproductive toxicity :	Not classified
Additional information :	Based on available data, the classification criteria are not met
STOT-single exposure :	Not classified
Additional information :	Based on available data, the classification criteria are not met
STOT-repeated exposure :	Not classified
Additional information :	Based on available data, the classification criteria are not met
Aspiration hazard :	Not classified
Additional information	Based on available data, the classification criteria are not met
	Based on available data, the classification criteria are not met.
symptoms	

SECTION 12: Ecological information			
Not classified			
Not classified			
> 1000 g/l - Oncorhynchus mykiss (rainbow trout) 96hr			

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EC50 Daphnia 1	> 300.82 mg/l Daphnia magna (Water flea) 48hr	
12.2. Persistence and degradability		
Acetic acid SH HPLC grade (64-19-7)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Acetic acid SH HPLC grade (64-19-7)		
Log Pow	-0.17	
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Acetic acid SH HPLC grade (64-19-7)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
12.6. Other adverse effects		

Additional information

: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number			<u></u>	
2789	2789	2789	2789	2789
14.2. UN proper shippin	g name			
ACETIC ACID, GLACIAL	ACETIC ACID, GLACIAL	Acetic acid, glacial	ACETIC ACID, GLACIAL	ACETIC ACID, GLACIAL
Transport document descr	iption			
UN 2789 ACETIC ACID, GLACIAL (Acetic acid SH HPLC grade), 8 (3), II, (D/E)	UN 2789 ACETIC ACID, GLACIAL (Acetic acid SH HPLC grade), 8 (3), II	UN 2789 Acetic acid, glacial (Acetic acid SH HPLC grade), 8 (3), II	UN 2789 ACETIC ACID, GLACIAL (Acetic acid SH HPLC grade), 8 (3), II	UN 2789 ACETIC ACID, GLACIAL (Acetic acid SH HPLC grade), 8 (3), II
14.3. Transport hazard o	lass(es)			
8 (3)	8 (3)	8 (3)	8 (3)	8 (3)
14.4. Packing group				
II	II	II	II	II
14.5. Environmental haz	ards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary informatio				
4.6. Special precautions	s for user			
Overland transport Classification code (ADR) .imited quantities (ADR)	: CF : 1I	1		

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Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 83
Orange plates	83 2789
Tunnel restriction code (ADR)	: D/E
EAC code	: •2P
APP code	: A(fl)
Transport by sea	
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-C
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Colourless flammable liquid with a pungent odour. When pure, crystallizes below 16°C. Flashpoint: 40°C c.c. (pure product) 60°C c.c. (80% solution) Explosive limits: 4% to 17% Miscible with water. Corrosive to lead and most other metals. Corrosive to skin, eyes and mucous membranes.
Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	
	: 851
PCA max net quantity (IATA)	: 851 : 1L
PCA max net quantity (IATA) CAO packing instructions (IATA)	: 1L : 855
PCA max net quantity (IATA)	: 1L : 855 : 30L
PCA max net quantity (IATA) CAO packing instructions (IATA)	: 1L : 855
PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA)	: 1L : 855 : 30L
PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN)	: 1L : 855 : 30L
PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN) Limited quantities (ADN)	: 1L : 855 : 30L : 8F : CF1 : 1 L
PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN) Limited quantities (ADN) Excepted quantities (ADN)	: 1L : 855 : 30L : 8F : CF1 : 1 L : E2
PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN) Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN)	: 1L : 855 : 30L : 8F : CF1 : 1 L : E2 : T
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PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN) Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Carriage permitted (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN) Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Excepted quantities (RID) Packing instructions (RID)	: 1L : 855 : 30L : 8F : CF1 : 1 L : E2 : T : PP, EP, EX, A : VE01 : 1 : CF1 : 1 : 2 : CF1 : 1 : 2 : 2 : 2 : 2 : 3 : 2 : 2 : 2 : 3 : 2 : 2 : 3 : 2 : 2 : 3 : 3 : 2 : 3 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4 : 4
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Transport category (RID)

Tank codes for RID tanks (RID)

(RID)

Portable tank and bulk container instructions (RID)

Portable tank and bulk container special provisions

: T7

: TP2

: L4BN

: 2

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

: CE6 Colis express (express parcels) (RID) Hazard identification number (RID) : 83

147 Tr and and the levelle. ding to Annex II of Marpol and the IBC Code

14.7.	Trans	port in	DUIK	accor	air
Not ap	oplicable	e			

SECTION 45: Regulatory information	
SECTION 15: Regulatory information 15.1, Safety, health and environmental reg	ulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
No REACH Annex XVII restrictions Acetic acid SH HPLC grade is not on the REACH (Directive 2012/18/EU (SEVESO III)	Candidate List
15.1.2. National regulations	
Germany	
Reference to AwSV	: Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV; ID No. 93)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	: R10 <h226;h314>; Emergency management guidelines for the storage of flammable liquids must be followed</h226;h314>
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
15.2. Chemical safety assessment No chemical safety assessment has been carried of	but for the substance or the mixture by the supplier

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other in	formation
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.
Full text of H- and EUH-st	atements:
Flam. Liq. 3	Flammable liquids, Category 3

riani. Elq. 0		
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
H226	Flammable liquid and vapour.	
H314	Causes severe skin burns and eye damage.	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.