

# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Issue Date 29-Oct-2010

Revision Date 14-Feb-2023

Version 2

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Code(s)	706834
Product Name	Ferrous Sulfate
CAS No	7720-78-7
Index No.	026-003-00-7
Formula	FeSO <sub>4</sub> • 7 H <sub>2</sub> O
Molecular weight	278.05 g/mole
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Recommended Use	Laboratory Use.

Uses advised against Consumer use

#### 1.3. Details of the supplier of the safety data sheet

#### Supplier

HACH UK Laser House Ground Floor, Suite B Waterfront Quay, Salford Quays GB - Manchester, M50 3XW Tel. +44 (0) 161 872 1487 info-uk@hach.com

HACH Ireland Unit 34 GB Business Park Little Island IRL-Co. Cork T45 H681 Tel. +353 (0)146 02 522 info-ie@hach.com

#### 1.4. Emergency telephone number

UK: Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service IE: National Poisons Information Centre (NPIC) 01 809 2566 (24/7)

### Section 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)

#### 2.2. Label elements

EC-Label	231-753-5
CAS No	7720-78-7
Contains Sulfuric acid, iron(2+) sa	alt (1:1)



Signal word Warning

#### Hazard statements

H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation

#### Precautionary Statements - EU (§28, 1272/2008)

P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves and eye/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs: 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
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

#### 2.3. Other hazards

No information available.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT) This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical name	CAS No. EC No. Index No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Sulfuric acid, iron(2+) salt (1:1)	7720-78-7 (026-003-00-7) 231-753-5	100%	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	-	-	-

Chemical name	CAS No. EC No. Index No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
	026-003-00-7					

#### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L		Inhalation LC50 - 4 hour - gas - ppm
Sulfuric acid, iron(2+) salt (1:1) 7720-78-7	1520 mg/kg	None reported	None reported	None reported	None reported

### Section 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

· · · ·		
General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.	
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.	
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).	
4.2. Most important symptoms and	effects, both acute and delayed	
Symptoms	May cause redness and tearing of the eyes. Burning sensation.	
4.3. Indication of any immediate medical attention and special treatment needed		
Note to doctors	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

**Specific hazards arising from the** Thermal decomposition can lead to release of irritating and toxic gases and vapours. **chemical** 

#### 5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
Additional information	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### Section 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so.
6.3. Methods and material for conta	inment and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

### Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.	
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Avoid creating dust.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.	

### 7.3. Specific end use(s)

Specific use(s)

Analytical reagent. Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	United Kingdom	Ireland
Sulfuric acid, iron(2+) salt (1:1)	-	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
7720-78-7		STEL: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>

Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	No information available. No information available.
Additional information 8.2. Exposure controls	No information available.
Engineering controls	Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Personal protective equipment Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374-1:2016 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III acco.

Gloves					
Duration of contact	PPE - Glove material	Glove thickness	Break through time		
Short term	Wear protective nitrile rubber gloves	480 minutes			
Long term (repeated)	Wear protective nitrile rubber gloves	0,11 mm	480 minutes		
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.				
Respiratory protection	Ensure adequate ventilation. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Wear breathing apparatus if exposed to vapours/dusts/aerosols.				
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Avoid creating dust.				
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

Physical state Solid

Colour Blue-green

Odour Odourless

Property	<u>Values</u>	Remarks • Method
Molecular weight	278.05 g/mole	
рН	3.7	10% Solution
Melting point / freezing point	No data available	
Initial boiling point and boiling range	> 300 °C / 572 °F	
Evaporation rate	Not applicable	
Vapour pressure	Not applicable	
Relative vapor density	No data available	
Specific Gravity	1.89	
Partition coefficient	No data available	
Soil Organic Carbon-Water Partition	No data available	
Coefficient Autoignition temperature	No data available	
Decomposition temperature	300 °C / 572 °F	
Dynamic viscosity	Not applicable	
Kinematic viscosity Relative density	Not applicable	

#### Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

Chemical Name	Solubility classification	Solubility_	Solubility Temperature
None reported	No information available	No data available	No information available

#### **Metal Corrosivity**

Steel Corrosion Rate Aluminum Corrosion Rate Not applicable Not applicable

#### **Explosive properties**

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	Not applicable
Flammability	
Upper flammability limit: Lower flammability limit	No data available No data available
Oxidising properties	No data available.
Bulk density	No data available
9.2. Other information	
No information available.	

### Section 10: STABILITY AND REACTIVITY

10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
10.3. Possibility of hazardous reaction	ions
Possibility of hazardous reactions	None under normal processing.
10.4. Conditions to avoid Conditions to avoid 10.5. Incompatible materials	None known based on information supplied.
Incompatible materials	Strong acids. Strong bases. Strong oxidising agents.
10.6. Hazardous decomposition pro	ducts_
Hazardous Decomposition Products	s Sulphur oxides.
Sec	ction 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

<u>Acute toxicity</u> Harmful if swallowed	
Mixture	If available, see ingredient data below.
Substance	Test data reported below.
Oral Exposure Route:	

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid, iron(2+) salt (1:1)	Rat LD <sub>50</sub>	1520 mg/kg	None reported	None reported	IUCLID
Acute Toxicity Estima Not applicable The following values		d based on c	hapter 3.1 of the	GHS document	
Skin corrosion/irritati Classification based or		e for ingredien	ts. Irritating to sk	in.	
Aixture		If available,	see ingredient d	ata below.	
Substance		No data ava	ailable.		
Serious eye damage/ Classification based or	e <u>ye irritation</u> n data availabl	e for ingredien	ts. Causes serio	us eye irritation.	
lixture		If available,	see ingredient d	ata below.	
Substance		No data ava	ailable.		
<b>Respiratory or skin s</b> eased on available dat		cation criteria a	are not met.		
lixture		If available,	see ingredient d	ata below.	
Substance		No data ava	ailable.		
<b>STOT - single exposu</b> Based on available dat		cation criteria a	are not met.		
lixture		lf available,	see ingredient d	ata below.	
Substance		No data available.			
STOT - repeated expo Based on available dat		cation criteria a	are not met.		
lixture		lf available,	see ingredient d	ata below.	
Substance		No data ava	ailable.		
Germ cell mutagenici Based on available dat		cation criteria a	are not met.		
/lixture invitro <b>Data</b>		If available,	see ingredient d	ata below.	
Substance invitro Da	ta	No data ava	ailable.		
/lixture invivo <b>Data</b>		If available,	see ingredient d	ata below.	
Substance invivo <b>Dat</b>	а	No data available.			
Carcinogenicity Based on available dat	a, the classific	cation criteria a	are not met.		

Mixture	If available, see ingredient data below.			
ubstance No data available.				
Reproductive toxicity Based on available data, the classific	cation criteria are not met.			
Mixture	No data available.			
Substance	No data available.			
Aspiration hazard Based on available data, the classific	cation criteria are not met.			
11.2 Information on other hazards Other dangerous properties can not b	be excluded. Handle in accordance with good industrial hygiene and safety practice.			
11.2.1. Endocrine disrupting prop Endocrine disrupting properties	No information available.			
11.2.2. Other information Other adverse effects	No information available.			
	Section 12: ECOLOGICAL INFORMATION			
<u>12.1. Toxicity</u>				
Ecotoxicity	Based on available data, the classification criteria are not met.			
Mixture				
Acute aquatic toxicity:	If available, see ingredient data below.			
Aquatic Chronic Toxicity: If available, see ingredient data below.				
Substance				
Acute aquatic toxicity:	Test data reported below.			
Fish:				

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sulfuric acid, iron(2+) salt (1:1)	96 hours	Poecilia reticulata	LC50	925 mg/L	IUCLID

Crustacea:

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sulfuric acid, iron(2+) salt (1:1)	48 Hours	Daphnia magna	EC50	152 mg/L	IUCLID

Aquatic Chronic Toxicity: No data available.

#### 12.2. Persistence and degradability

Mixture

No data available.

#### 12.3. Bioaccumulative potential

Mixture:	No data available.
Partition coefficient	No data available
<u>12.4. Mobility in soil</u>	

Soil Organic Carbon-Water Partition No data available Coefficient

#### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Sulfuric acid, iron(2+) salt (1:1)	The substance is not PBT / vPvB

#### 12.6. Endocrine disrupting properties

Endocrine Disruptor Information: This product does not contain any known or suspected endocrine disruptors

#### 12.7. Other adverse effects

No information available.

Ozone:	Not applicable
Ozone:	inot applicable

Ozone depletion potential (ODP): No information available

### Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Advice on Disposal	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Waste disposal number of waste fr	om residues/unused products
160506	WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste.
Waste disposal number of used pro	oduct
160506	WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste.
Contaminated packaging	Dispose of contents/containers in accordance with local regulations.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

### Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN number or ID number

Not regulated

<ul> <li>14.2 Proper shipping name</li> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing Group</li> <li>14.5 Marine pollutant</li> <li>14.6 Special precautions for user</li> <li>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</li> </ul>	Not regulated Not regulated Not regulated Not applicable See section 6-8 for more information Not applicable
ADR 14.1 UN number or ID number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing Group 14.5 Environmental hazards 14.6 Special precautions for user	Not regulated Not regulated Not regulated Not regulated Not applicable See section 6-8 for more information
IATA 14.1 UN number or ID number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user	Not regulated Not regulated Not regulated Not regulated Not regulated Not applicable See section 6-8 for more information

#### Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies. If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

#### Section 15: REGULATORY INFORMATION

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

#### National regulations

#### **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

#### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Sulfuric acid, iron(2+) salt (1:1) - 7720-78-7	75.	

Persistent Organic Pollutants Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

Non-controlled

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

#### Germany

Water hazard class (WGK)

slightly hazardous to water (WGK 1)

#### France

**Occupational Illnesses (R-463-3, France)** 

Chemical name	French RG number	Title
Sulfuric acid, iron(2+) salt (1:1)	RG 5,RG 14,RG 15,RG	-
7720-78-7	15bis,RG 20bis	
	RG 14,RG 20bis,RG 65	

International Inventories	
EINECS/ELINCS	Complies
TSCA	Complies
DSL/NDSL	Complies
ENCS	Complies
IECSC	Complies
KECL - Existing substances	Complies
PICCS	Complies
AICS	Complies

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**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

#### 15.2. Chemical safety assessment

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

29-Oct-2010		
29-00-2010		
14-Feb-2023		
New SDS, SDS sections updated, 3, 9, 11, 12.		
Key or legend to abbreviations and acronyms used in the safety data sheet		
Hazard Designation Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieure		

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ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service Number
Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging of substances and mixtures [Regulation (EC) No. 1272/2008]
DNEL	Derived No Effect Level (DNEL)
EC	European Community
ECHA	ECHA (The European Chemicals Agency)
EC50	Effective Concentration to 50% of a test population
EEC	European Economic Community
EN	European Standard
IMDG	International Maritime Dangerous Goods (IMDG)
ΙΑΤΑ	International Air Transport Association (IATA)
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations
ICAO	International Civil Aviation Organization
ICAO-TI	International Civil Aviation Organization - Technical Instructions
IUCLID	IUCLID (The International Uniform Chemical Information Database)
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LOAEL	Lowest observed adverse effect level
LOAEC	Lowest observed adverse effect concentration
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOLI	LOLI (List of Lists - An International Chemical Regulatory Database)
MAK	Maximale Arbeitsplatz-Konzentration, a German expression corresponding to threshold limit
NOAE	value, which relates to safe daily exposure levels to chemical substances
NOAEL	NOAEL (No observed adverse effect level)
NOAEC	No observed adverse effect concentration
OSHA	OSHA (Occupational Safety and Health Administration of the US Department of Labour)
PEC	Predicted Effect Concentration
PNEC	Predicted No Effect Concentration (PNEC)
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals [Regulation (EC) No. 1907/2006])
RID	Règlement international concernant le transport des marchandises dangereuses par chemin
DIEGO	de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
RTECS	RTECS (Registry of Toxic Effects of Chemical Substances)
TWA	TWA (time-weighted average)
SKN*	Skin designation
SKN+	Skin sensitisation
STEL	STEL (Short Term Exposure Limit)
STOT	Specific Target Organ Toxicity
STOT RE	Specific target organ toxicity — repeated exposure
STOT SE	Specific target organ toxicity — single exposure
SVHC	Substances of Very High Concern
TLV	Threshold Limit Value
TRGS	Technical rules for hazardous substances, Germany
TSCA	Toxic Substances Control Act United Nations
vPvB VOC	very persistent and very bioaccumulative
AwsV	Volatile organic compounds Administrative regulation of water polluting substances, Germany
	Automostative regulation of water polititing substatices, Gernany

Key literature references and sources for data See Section 11: TOXICOLOGICAL INFORMATION

See Section 12: ECOLOGICAL INFORMATION

#### **Classification procedure**

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method

Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration toxicity	Calculation method
Ozone	Calculation method

#### **Training Advice**

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

**Restrictions on use** 

For Laboratory Use Only.

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

End of Safety Data Sheet