

SAFETY DATA SHEET

Bifenthrin Technical

This safety data sheet complies with the requirements of:
Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS #: 660-CH-A
Revision date: 2020-04-14
Format: EU
Version 3

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

Product Code(s) 660-CH-A

Product Name Bifenthrin Technical

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

Recommended Use: To be used as an active ingredient in insecticides only

Restrictions on Use: Use as recommended by the label.

1.3. Details of the supplier of the safety data sheet

Supplier CHEMINOVA A/S, a subsidiary of FMC Corporation
Thyborønvej 78
DK-7673 Harbøre
Denmark
+45 9690 9690
SDS.Ronland@fmc.com

For further information, please contact:

Contact point (+45) 97 83 53 53 (24 h; for emergencies only)

1.4. Emergency telephone number

Emergency telephone Medical Emergencies: 1-6516326793
For leak, fire, spill or accidents: 972-37630639 (CHEMTREC)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 2 - (H300)
Acute toxicity - Inhalation (Dusts/Mists)	Category 3 - (H331)
Skin sensitization	Category 1B - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (repeated exposure)	Category 1 - (H372)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements

Hazard pictograms



Signal Word
Danger

Hazard Statements

H300 - Fatal if swallowed
H317 - May cause an allergic skin reaction
H331 - Toxic if inhaled
H372 - Causes damage to organs through prolonged or repeated exposure
H351 - Suspected of causing cancer
H410 - Very toxic to aquatic life with long lasting effects
EUH401: Follow the instructions for use to avoid risks to human health and the environment.

Precautionary Statements

P261: Avoid breathing dust.
P264 - Wash hands thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P310 - Immediately call a POISON CENTER or doctor/physician
P501: Dispose of contents/container as hazardous waste.

2.3. Other hazards

The substance does not meet the criteria for being PBT or vPvB.
Excessive dust formation may pose a dust explosion hazard.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

The product is a mixture, not a substance.

Chemical name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Bifenthrin	-	82657-04-3	98.4	Acute Tox. 2 (H300) Acute Tox. 3 (H331) Skin Sens. 1B (H317) Carc. 2 (H351) STOT RE 1 (H372) Aquatic Acute 1 (H400) M=10000 Aquatic Chronic 1 (H410) M (Chronic)= 100000	No data available

Additional Information

For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice

If exposure has occurred, do not wait for symptoms to develop, but immediately start the procedures described below. People who come to the rescue should apply all required safety measures.

Eye Contact	Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. Call a physician immediately.
Skin Contact	Immediately remove contaminated clothing and footwear. Do not start with flushing with water, but wipe off with dry cloth or using talcum powder, followed by washing with water and soap. Thereafter apply vitamin E cream or fatty skin care oil or cream. See physician if any symptom develops.
Inhalation	<p>If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.</p> <p>If breathing has stopped, immediately start artificial respiration and maintain until a physician takes charge of the exposed person. Use a bag valve mask or similar device to perform artificial respiration if needed.</p>
Ingestion	If the exposed person is conscious, make him/her vomit quickly. Make the exposed person rinse mouth and then drink 1 or 2 glasses of water or milk. Let him/her induce vomiting by touching the back of the throat with a finger. If vomiting occurs, let him/her rinse mouth and drink fluids again. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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

Most important symptoms and effects, both acute and delayed	Bifenthrin affects the central nervous system. On contact, it can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia). After oral intake it may cause gastrointestinal discomfort, such as nausea, vomiting, diarrhoea.
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4.3. Indication of any immediate medical attention and special treatment needed

Indication of immediate medical attention and special treatment needed, if necessary	<p>If any sign of poisoning occurs, call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to a pyrethroid insecticide. Describe his/her condition and the extent of exposure. Immediately remove the exposed person from the area where the product is present.</p> <p>As soon as a feeling of tingling is noted in any skin area (see section 11), it is recommended to immediately apply lidocaine or vitamin E cream. For this purpose lidocaine or vitamin E cream should be available at the workplace.</p> <p>It may be helpful to show this safety data sheet to physician.</p> <p>NOTES TO PHYSICIAN: A specific antidote against this substance is not known. Gastric lavage and administration of activated charcoal can be considered. Normally recovery is spontaneous.</p> <p>If allowed to penetrate the skin, bifenthrin may cause an irritation similar to sunburn. The substance will be drawn into a non-polar environment such as a fat based oil or cream. Vitamin E cream has been reported to be beneficial. Water is highly polar and will not decrease, but may prolong the irritation. Hot water may increase the pain.</p> <p>For eye contamination, instillation of local anesthetic can be considered.</p>
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Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as hydrogen chloride, hydrogen fluoride, carbon monoxide, carbon dioxide and various chlorinated and fluorinated organic compounds.

5.3. Advice for firefighters

Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures**Personal Precautions**

It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.

In case of large spill (involving 1 tonnes of the product or more):

1. use personal protection equipment (see Section 8)
2. call emergency telephone number in Section 1.
3. alert authorities.

Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and rubber boots. Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area. Avoid and reduce formation of airborne dust as much as possible, if appropriate by moistening. Remove all sources of ignition.

For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and material for containment and cleaning up**Methods for Containment**

It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, attapulgit, bentonite or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with much water and industrial detergent. Absorb wash liquid onto absorbent and transfer to suitable containers. The used containers should be properly closed and labelled.

Methods for cleaning up

Large spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

6.4. 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

Handling

Like most organic powders, the substance can form explosive mixtures with air. Avoid dust formation and take precautionary measures against static discharge. Use explosion protected equipment. Keep away from sources of ignition and protect from exposure to fire and heat.

In an industrial environment, it is recommended to avoid any personal contact with the product, if possible, using remotely controlled systems with remote control. Otherwise, it is recommended to process the material with maximum mechanical means. Adequate ventilation or local exhaust ventilation is required. Exhaust gases must be filtered or treated differently. For personal protection in this situation, see Section 8.

Remove contaminated clothing and shoes. Wash thoroughly after handling. Use protective gloves made from chemicals such as nitrile or neoprene. Wash gloves with soap and water before reuse. Check regularly for leaks. Do not dispose into the environment. Do not contaminate water when disposing of the flushing water for equipment. Collect all waste and residues from cleaning equipment, etc. And dispose of them as hazardous waste. See Section 13 for disposal.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8. Keep all unprotected persons and children away from working area.

As soon as a feeling of tingling is noted in any skin area, it is recommended to immediately apply lidocaine or a vitamin E cream.

Avoid contact with eyes, skin or clothing. Avoid breathing vapour or dust. Remove contaminated clothing immediately. Wash thoroughly after handling. Before removing gloves, wash them with water and soap and then throw them out. After work, take off all work clothes and footwear. Take a shower, using water and soap. Wear only clean clothes when leaving job. Wash protective clothing and protective equipment with water and soap after each use.

Hygiene measures

The work area should always be kept clean. Used personal protection equipment should either be thrown out or be cleaned immediately after use. Respirator should be cleaned and filter replaced according to instructions provided with respirator. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities**Storage**

The product is stable under normal conditions of warehouse storage. Protect against extremes of heat and cold. Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

7.3. Specific end use(s)**Specific Use(s)**

The product is an active ingredient meant for the production of pesticides which may only be used for officially allowed applications.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Derived No Effect Level (DNEL) Systemic. 0.0075 mg/kg bw/day.

Predicted No Effect Concentration (PNEC) Aquatic. 0.095 ng/l.

8.2. Exposure controls**Engineering measures**

Apply technical measures to comply with the occupational exposure limits (if listed above). When working in confined spaces (tanks, containers, etc.), make sure there is an adequate source of air for breathing and wear the recommended equipment. Ventilate all transport vehicles prior to discharge.

Personal protective equipment

Eye/Face Protection	For dust, splash, mist or spray exposure, wear chemical protective goggles. Maintain eye wash fountain and quick-drench facilities in work area.
Hand Protection	Wear chemical protective gloves made of materials such as nitrile or neoprene.
Skin and Body Protection	Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of appreciable or prolonged exposure, coveralls of barrier laminate may be required.
Respiratory Protection	The product does not automatically present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment with a universal filter type including particle filter.

Environmental exposure controls Do not release to the environment.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Solid
Appearance	Powder or waxy solid
Odor	Aromatic or mild solvent
Color	White / Beige
Odor threshold	Not applicable
pH	Not applicable
Melting point/freezing point	79.6°C (98.6%)
Boiling Point/Range	Ebullition of decomposed product: 291.3°C (98.6%)
Flash point	Not applicable
Evaporation Rate	No information available
Flammability (solid, gas)	
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	2.4 x 10 ⁻⁴ Pa @ 25°C 1.78 x 10 ⁻⁵ Pa @ 20°C
Vapor density	No information available
Specific gravity	No information available
Water solubility	< 0.001 mg/l at 20°C, pH 5 (97.8%) < 0.001 mg/l at 20°C, pH 7(97.8%) 0.00376 mg/l at 20°C, pH 9 (97.8%)
Solubility in other solvents	methanol = 48.0 g/l at 20°C xylene= 556.3 g/l at 20°C acetone = 735.7 g/l at 20°C heptane = 144.5 g/l at 20°C ethyl acetate = 579.8 g/l at 20°C 1,2-dichloroethane = 743.2 g/l at 20°C
Partition coefficient	Log Kow = 6.6 (comparative HPLC method)
Autoignition temperature	No information available
Decomposition temperature	280°C (98.6%)
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	Not explosive
Oxidizing properties	Non-oxidizing

9.2. Other information

Softening point	No information available
Molecular weight	No information available

VOC content (%)	No information available
Relative density	No information available
Bulk density	1.212 g/cm ³ @ 25°C
K _{st}	No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Decomposes on heating. Direct local heating such as electric heating or by steam must be avoided.

Explosion data

Sensitivity to Mechanical Impact None known.

Sensitivity to Static Discharge None known.

10.3. Possibility of hazardous reactions

Hazardous polymerization

None known.

Hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heating of the product will produce harmful and irritant vapors.

10.5. Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases.

10.6. Hazardous decomposition products

See Section 5 for more information.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

LD50 Oral

70.1 mg/kg (male rat)

53.8 mg/kg (female rat)

LD50 Dermal

> 2000 mg/kg (rat) US EPA Test Guideline OPP 81-2

LC50 Inhalation (dust)

0.8 mg/L 4 hr (female rat) (Method: OECD 403)

1.1 mg/l 4h (male rat) (Method: OECD 403)

Skin corrosion/irritation

No irritation (rabbit). US EPA Test Guideline OPP 81-5.

Serious eye damage/eye irritation

Non-irritating (rabbit). US EPA Test Guideline OPP 81-4.

Sensitization

Sensitizer, OECD Test Guideline 406

Mutagenicity

Negative in Chinese hamster ovary cells. (Method a.o. Dir. 87/302/EEC Part B).

Carcinogenicity

No indications of a carcinogenic effect in rats (method EPA 83-5). Female mice at 50, 200 and 600 ppm had significant higher incidence of combined lung adenomas and carcinomas, but these were not dose-related. Male mice had hepatocellular carcinomas and combined

hepatocellular adenomas and carcinomas, which were dose-related but not significant in number. Male mice had increased incidence of benign hemangiopericytomas in the urinary bladder (method EPA 83-2).

Reproductive toxicity	No effects on fertility are found in animal tests (method EPA 83-4). No teratogenic (birth defects causing) effects are found (method EPA 83-3).
STOT - single exposure	No specific effects after single exposure have been observed.
STOT - repeated exposure	Target Organs: Nervous system. Repeated exposure may cause neurotoxic effects. Tremors were observed in a 90-day oral test with rats at exposure levels of 7 - 9 mg/kg bw/day (method EPA 82-1).
Symptoms	On contact, bifenthrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.
Aspiration hazard	The substance does not present an aspiration pneumonia hazard.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects

Bifenthrin (82657-04-3)				
Active Ingredient(s)	Duration	Species	Value	Units
	14-day LC50	Eisenia fetida	> 8	mg/kg soil
	LD50	Bobwhite quail	1800	mg/kg
	96 h LC50	Salmo gairdneri	0.1	µg/L
	48 h EC50	Daphnia magna	0.11	µg/L
	21 d NOEC	Daphnia magna	0.00095	µg/L
	21 d NOEC	Pimephales promelas	1.86	µg/L
	30 d NOEC	Salmo gairdneri	0.012	µg/L

12.2. Persistence and degradability

Not readily biodegradable. Primary half-life in soil is generally measured to be over 100 days.

12.3. Bioaccumulative potential

See section 9 for n-octanol/water partition coefficient. Bifenthrin has the potential to bioaccumulate, but in view of its high acute toxicity to aquatic organisms, bioaccumulation is not relevant for these species.

12.4. Mobility in soil

Mobility in soil
Not mobile in soil.

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for being PBT or vPvB.

12.6. Other adverse effects

None known.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Residual waste

Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste. Dispose of as hazardous waste in compliance with local and national regulations.

According to the Waste Framework Directive (2008/98/EC), possibilities for reuse or reprocessing should first be considered. If this is not feasible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing.

Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated containers and packages

It is recommended to consider possible ways of disposal in the following order:

1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.
2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

14.1 UN/ID no	3349
14.2 Proper Shipping Name	Pyrethroid pesticide, solid, toxic (Bifenthrin)
14.3 Hazard class	6.1
14.4 Packing Group	III
14.5 Marine Pollutant	Yes
Environmental Hazard	Yes
14.6 Special Provisions	Do not release to the environment
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This product is not transported in bulk containers.

RID

14.1 UN/ID no	3349
14.2 Proper Shipping Name	Pyrethroid pesticide, solid, toxic (Bifenthrin)
14.3 Hazard class	6.1
14.4 Packing Group	III
14.5 Environmental Hazard	Yes
14.6 Special Provisions	Do not release to the environment

ADR/RID

14.1 UN/ID no	3349
14.2 Proper Shipping Name	Pyrethroid pesticide, solid, toxic (Bifenthrin)
14.3 Hazard class	6.1
14.4 Packing Group	III

14.5 Environmental Hazard Yes
14.6 Special Provisions Do not release to the environment

ICAO/IATA

14.1 UN/ID no 3349
14.2 Proper Shipping Name Pyrethroid pesticide, solid, toxic (Bifenthrin)
14.3 Hazard class 6.1
14.4 Packing Group III
14.5 Environmental Hazard Yes
14.6 Special Provisions Do not release to the environment

Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work. The employer shall assess any risks to the safety or health and any possible effect on the pregnancies or breastfeeding of workers and decide what measures should be taken (Dir. 92/85/EEC).

Young people under the age of 18 are not allowed to work with the substance.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not Applicable

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

Toxic
Dangerous for the environment

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Bifenthrin 82657-04-3				X	X	X		

15.2. Chemical safety assessment

A chemical safety assessment is not required to be included for this product.

Section 16: OTHER INFORMATION

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

Full text of H-Statements referred to under sections 2 and 3

H300 - Fatal if swallowed
H331 - Toxic if inhaled
H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer
H372 - Causes damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Legend

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	CAS (Chemical Abstracts Service)
Ceiling:	Maximum limit value:
DNEL:	Derived No Effect Level (DNEL)
EINECS:	EINECS (European Inventory of Existing Chemical Substances)
GHS:	Globally Harmonized System (GHS)
IATA:	International Air Transport Association (IATA)
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Dangerous Goods (IMDG)
LC50:	LC50 (lethal concentration)
LD50:	LD50 (lethal dose)
PBT:	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STEL:	Short term exposure limit
SVHC	SVHC: Substances of Very High Concern for Authorization:
TWA:	time weighted average
vPvB:	very Persistent and very Bioaccumulative

Classification procedure

Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

Key literature references and sources for data

Data are available from published literature and can be found several places.

Revision date: 2020-04-14

Reason for revision: Not applicable.

Training Advice This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

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End of Safety Data Sheet