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SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the substance or mixture:

Name: CYPERGAN 100 EW
Product code: SBM 06/023/10
GR

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

Insecticide

1.3. Details of the supplier of the safety data sheet

Registered company name: SBM DEVELOPPEMENT SAS.
Address: 160, route de la Valentine – CS 70052 - 13374 MARSEILLE CEDEX 11 - FRANCE.
Telephone: +33467355050. Fax: +33467355035. E-mail : contact.cmpa@sbm-dev.com

1.4. Emergency telephone number

+33 (0)1 45 42 59 59 (INRS / ORFILA - www.centres-antipoison.net)
+33 (0)3 83 32 36 36 (www.centres-antipoison.net)
(24h/24 7d/7).

2 – HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to regulation (EC) N° 1272/2008 [UE-GHS/CLP]

- Skin irritation cat.2 - H315 : Causes skin irritation
- Skin sensitization, category 1 - H317: May cause an allergic skin reaction
- Aquatic Acute 1 - H400: Very toxic to aquatic life.
- Aquatic Chronic 1 - H410: Very toxic to aquatic life with long lasting effects.

2.1.2. Classification according to Directive N°1999/45/CE

N - Dangerous for the environment.

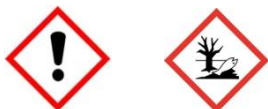
Xi – Irritant

- R38: Irritating to skin.
- R43: May cause sensitization by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Labelling

Labelling according to regulation CE N° 1272/2008 [UE-GHS/CLP]

Hazard pictogram:




Signal word: WARNING

Hazard statements:

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

- P102: Keep out of reach of children.
- P405: Store locked up.
- P261: Avoid breathing vapours.
- P262: Do not get in eyes, on skin, or on clothing.
- P270: Do not eat, drink or smoke when using this product.

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P280: Wear protective gloves and protective clothing.
P273: Avoid release to the environment.
P501: Dispose of contents/container as hazardous waste.

Special provisions:

EUH210: Safety data sheet available on request.
EUH401: To avoid risks to human health and the environment, comply with the instructions for use.
SP1: Do not contaminate water with the product or its container [Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads].
Spe3: To protect aquatic organisms respect an unsprayed buffer zone of 30m to surface water bodies for viticulture and crops which growth exceeds 50cm; and an unsprayed buffer zone of 10m to surface water bodies for vegetables which development is less than 50cm.
Spe3: To protect non-target arthropods respect an unsprayed buffer zone of 5m to non-agricultural land for viticulture and crops which growth exceeds 50cm.
Spe8: Dangerous to bees. Do not use where bees are actively foraging. To protect bees and other pollinating insects do not apply to crop plants when in flower. Do not apply when flowering weeds are present. Remove weeds before flowering.
Remove or cover beehives during application and for 1 day after treatment.

2.3. Other hazards

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3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

3.1. Substances

Substances representing a hazard:

Chemical name	N° CAS N° CE N° INDEX	REACH Registration n°	Classification according to Directive 67 / 548 / EEC	Classification according to Regulation (EC) No. 1272/2008		Content %w/w
CYPERMETHRINE CIS/TRANS +/-40/60	52315-07-8 257-842-9 607-421-00-4	Exempt	Xn, R20/22 ; Xi, R37 ; N, R50-53	Acute Tox. 4 Acute Tox. 4 STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1	H332 H302 H335 H400 H410	8 ≤ x % ≤ 12
AROMATIC HYDROCARBON, C9	64742-95-6 918-668-5 649-356-00-4	01-2119455851- 35	R10 ; Xi, R37 ; Xn, R65, R66, R67 ; N, R51/53	Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 3, STOT SE 3, STOT SE 3,	H411 H304 H226 H335 H336	5 ≤ x % ≤ 10
MONOPROPYLENE GLYCOL	57-55-6 200-338-0 ---	01-2119456809- 23-xxxx	Not classified but with a VME	Not classified but with a VME		1 < x % ≤ 10

3.2. Mixtures

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4 - FIRST AID MEASURES

4.1. Description of first aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
Call a POISON CENTER or a doctor/physician if you feel unwell.
NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:


If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.
If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.
Do not give the patient anything orally.

In the event of splashes or contact with eyes:

Wash abundantly with fresh water and clean during 15 minutes by maintaining the eyelids isolated.
Address the patient in an ophthalmologist, in particular if it appears a redness, a pain or a visual embarrassment.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
DO NOT use solvents or thinners.

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If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital

In the event of swallowing:

In the event of swallowing, if the quantity is not very important, (not more than one mouthful), rinse the mouth with water and consult a doctor

In the event of accidental ingestion call a doctor to judge appropriateness of a monitoring and a secondary treatment in hospital medium, if need be. Show this safety data sheet or the label.

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

Local symptoms: After contact with the skin: Paresthesia (local) can cause irritation to the skin and eyes. Inhalation may provoke the following symptoms: irritation and coughing.

Systemic symptoms : Excitement, Gastrointestinal discomfort, Tremor, Dizziness, Headache, listlessness, nausea and vomiting, epigastric pain, muscular fasciculation of limbs.

Risks : This product/preparation contains a pyrethroid. Must NOT be confused with organophosphorus compounds.
Risk of entering the lungs on vomiting after ingestion.

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

Local treatment: Initial treatment should be symptomatic and supportive. After eye contact: instillation of local anaesthetics drops e.g. 1%. Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.

Systemic treatment: Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.

5 - FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

In the event of fire, use specifically adapted means of extinction: foams, carbon dioxide, powder, water spray or fine droplets.

Extinguishing media which must not be used for safety reasons:

Water jet

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Nitrogen and carbon oxides

5.3. Advice for firefighters

Special protective equipment for fire-fighters:

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus and full protection of the body.

6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid any contact with the skin and eyes.

Consult the safety measures listed under headings 7 and 8.

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

6.3. Methods and material for containment and cleaning up


Clean preferably with a detergent, avoid the use of solvents

6.4. Reference to other sections

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7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

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7.1. Precautions for safe handling

Handle in well-ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities

Fire prevention:

Keep packages tightly closed and away from sources of heat, spark and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal safety, see §8.

Observe precautions stated on label and also industrial safety regulations

Avoid contact of product with the skin and eyes.

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in premises where the preparation is used

Never open the packages under pressure

Storage:

Keep the container tightly closed in a dry, well-ventilated place

7.3. Specific end use(s)

/

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

8.1. Control parameters

Exposure Limit Values:

CAS N°	Substance	VME	VLE	Source
64742-95-6	AROMATIC HYDROCARBON	19 ppm = 100 mg/m ³	Data not available	Supplier: Exxon Mobil

Operator :

CAS N°	Substance	Dermal	Inhalation
64742-95-6	AROMATIC HYDROCARBON	25 mg/kg bw/day DNEL, Chronic exposure, systemic effects	100 mg/m ³ DNEL, Chronic exposure, systemic effects
57-55-6	MONOPROPYLENE GLYCOL	Data not available	Long Term : 168 mg/m ³

The acceptable level of exposure to the operator (AOEL) for CYPERMETHRIN, set in the context of its inclusion in Annex I to Directive 91/414/EEC, is 0.06 mg / kg BW / d.

8.2. Exposure control

Technical measures:

Use technical measures (ventilation, local exhaust ventilation work) to keep airborne concentrations below exposure limits.

Maintain the premises and workstations perfectly clean, clean frequently.

Store personal protective equipment in a clean place, away from the work area.


Always use clean and properly maintained personal protection equipment.

Respiratory protection:

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

When workers are exposed to higher than concentrations exposure limits they must use appropriate certified respirators.

In case of insufficient ventilation, wear a half-mask according to EN 140, with a A2B2 filter according to EN 141 in conjunction with a particle filter P3 according to EN 143.

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Hand protection:

Wear gloves resistant and impervious to chemicals in accordance with EN 374 gloves. Material type and thickness must be defined following a rigorous analysis of the conditions at the workplace.

Eye and face protection:

Wear safety glasses with side shields in accordance with EN 166 or equivalent. If exposure causes eye discomfort, use a respirator with a full facepiece.

Skin protection:

Avoid contact with skin.

Wear suitable protective clothing:

- In case of heavy splashing, wear chemical protective clothing impervious to liquids (type 3) in accordance with EN14605 to prevent skin contact.

- If risk of splashing, wear chemical protective clothing (type 6) conforming to NF EN13034 to prevent skin contact.

Personnel shall wear regularly washed clothes.

After contact with the product, all soiled parts of the body should be washed.

Environmental exposure controls:

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9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State:	Liquid
Color:	white
Odor:	Characteristic
Odor threshold:	No data available
Density (20 ° C):	1020 g/dm ³
pH 1%:	4 - 5
Solidification temperature:	not available
Boiling point / range:	100 ° C
Flash point:	:> 100 ° C
Evaporation rate:	not available
Flammability (solid, gas):	not applicable
Upper Explosive Limit:	not available
Lower Explosive Limit:	not available
Vapour pressure:	not available
Solubility in water:	Insoluble - Emulsion
N-octanol/water partition coefficient:	not available
Auto-ignition temperature:	> 400 ° C
Decomposition Temperature:	not available
Kinematic viscosity (40 ° C):	8.65 mm ² / s
Explosive properties:	not explosive
Oxidizing properties:	not available
Oxidizing properties:	not oxidising

9.2. Other information

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10 - STABILITY AND REACTIVITY

10.1. Reactivity


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10.2. Chemical stability

The product is stable under normal conditions of use and storage as described in section 7.

10.3. Possibility of hazardous reactions

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10.4. Conditions to avoid

Very high temperatures

10.5. Incompatible materials

Bases, strong acids, strong oxidizing and reducing agents.

10.6. Hazardous decomposition products

Nitrogen and carbon oxides

11 - TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

In the event of exposure by inhalation:

- Formula :
Acute toxicity : inhalation CL 50 rat, 4h : 5,44 mg/l.
- Cypermethrin:
Acute toxicity: inhalation CL 50 rat, 4h: 3,28 mg/l
Irritating to respiratory system
Harmful by inhalation

In the event of swallowing:

- Formula :
Acute toxicity: oral DL 50 rat : > 2000mg/l.
- Cypermethrin :
Acute toxicity: oral DL 50 rat: 287 mg/Kg
Harmful if swallowed

In the event of splashes or contact with skin:

- Formula :
Acute toxicity : dermal DL 50 rat : > 2000mg/l.
Skin irritation: Irritating to rabbit skin.
Skin sensitization: Sensitizing to mouse skin.
- Cypermethrin:
Acute toxicity: dermal DL 50 rat : > 2000 mg/Kg

In the event of splashes or contact with eyes:

- Formula :
Eye irritation: non irritating to rabbit eyes.

Carcinogenicity:

Studies conducted with cypermethrin showed no carcinogenic effects.

Mutagenicity:

- Data CYPERMETHRIN, CAS No. 52315-07-8:
- Germ cell mutagenicity: the studies showed no mutagenic effects.
- Data on AROMATIC HYDROCARBONS, CAS No. 64742-95-6:
- Germ cell mutagenicity: unlikely to be a germ cell mutagen.

Reproductive Toxicity:

- Data CYPERMETHRIN, CAS No. 52315-07-8:
Studies conducted on cypermethrin showed no effects on reproduction.
- Data on AROMATIC HYDROCARBONS, CAS No. 64742-95-6:
Not expected to be toxic to reproduction (based on experimental data related to this product).

Developmental Toxicity:


- Data CYPERMETHRIN, CAS No. 52315-07-8:
Reduced litter size and pup weight at doses toxic to the mother.

Specific target organ toxicity / single exposure:

- Data on AROMATIC HYDROCARBONS, CAS No. 64742-95-6:
May cause drowsiness or dizziness. May be irritating to the respiratory tract.

Specific target organ toxicity / Repeated Exposure:

- Data on AROMATIC HYDROCARBONS, CAS No. 64742-95-6:

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Unlikely to cause damage to organs through repeated exposure or prolonged exposure (based on experimental data relating to products similar structure).

Other data:

- Data CYPERMETHRIN, CAS No. 52315-07-8:

- Toxicokinetics, metabolism and distribution:

Orally cypermethrin is significantly absorbed (50% in 24 hours), and distributed throughout the body, mainly in the skin and fat, before being metabolized (50% hydrolysed in acid and non-active alcohol derivatives). It is almost completely eliminated (> 90%) in 72 hours by the urine and faeces.

- Data on AROMATIC HYDROCARBONS, CAS No. 64742-95-6:

Vapors at concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may cause other effects on the central nervous system.

Prolonged skin contact and / or repeated contact with products of low viscosity can defat the skin, which may cause irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or vomiting may cause chemical pneumonitis or pulmonary edema.

12 - ECOLOGICAL INFORMATION

Toxic to aquatic organisms, may cause long-term adverse effects.

The product must not be allowed to run into drains or waterways.

The following data correspond to the substances contained in the mixture and classified as dangerous for the environment, the data for the mixture are not available.

12.1. Toxicity

- **Data on CYPERMETHRIN, CAS N°52315-07-8 :**

Aquatic organisms :

Species	Results	Exposure duration/conditions/Remarks
Fish, <i>Onchorhynchus mykiss</i>	CL50 = 0,0028 mg/L	96h
Daphnies, <i>Daphnia magna</i>	CE50 = 0,0003 mg/L	48h
Algae, <i>Ps. subcapitata</i>	CE50 > 0,1 mg/L	96h

Substance highly toxic to fish and aquatic invertebrates.

Other organisms :

Species	Results	Exposure duration/conditions/Remarks
Birds	DL50 acute > 10000 mg/kg p.c. CL50 dietary > 5620 ppm CSEO(NOEC) reproduction = 1000 ppm	Data not available
Earthworms	CL50 > 100 mg/kg soil Toxicity on reproduction : No effect on the field up to 100 g/ha.	14 days
Bees	DL 50 contact = 0,02 µg/bee DL50 oral = 0,035 µg/bee	24h 24h

Slightly toxic to birds and earthworms; highly toxic to bees.

Rapidly penetrates the insect cuticle and acts by opening the sodium channel.


Inhibitory effects on the activity of micro-organisms:

No adverse effects on the mineralization of carbon and nitrogen from the soil at a dose of 150 g / ha.

- **Data on AROMATIC HYDROCARBON, CAS N° 64742-95-6 :**

Aquatic organisms :

Species	Results	Exposure duration/conditions/Remarks
Fish, <i>Onchorhynchus mykiss</i>	LL50 acute = 9.2 mg/l	96h/ Data for similar products
Daphnies, <i>Daphnia magna</i>	LE50 acute = 3,2 mg/L	48h/ Data for similar products
Algae, <i>Pseudokirchneriella subcapitata</i>	ErL50 acute = 2.9 mg/l DSEO-R (NOELR) acute = 1 mg/l	72h / Data for similar products 72h / Data for similar products

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12.2 Persistence and degradability

- **Data on CYPERMETHRIN, CAS N°52315-07-8 :**

- Biodegradability :

Not readily biodegradable.

Degraded in the soil within 2 to 15 weeks (DT50) depending on the type of the soil.

Degradation is also faster under aerobic conditions.

- Abiotic degradation :

Stable in acidic medium (half-life \geq 1000 days at pH 3), hydrolysis in alkaline medium (half-life \leq 0.5h at pH11). Pure substance is stable to light, but degraded by photolysis in water (DT50 <15 days) and in the air (DT50 = 3.5h).

- Wastewater treatment:

Respiration inhibition of activated sludge: CL50 = 163 mg/L

- **Data on AROMATIC HYDROCARBON, CAS N° 64742-95-6 :**

- Biodegradability :

	Study protocol	Duration	Results : Basis
Water	Easy Biodegradability	28 days	78% of product degraded

12.3. Bioaccumulative potential

- **Data on CYPERMETHRIN, CAS N°52315-07-8 :**

log Kow = 5.3-5.6.

FBC = 1204 High potential to accumulate in fat.

12.4. Mobility in soil

- **Data on CYPERMETHRIN, CAS N°52315-07-8 :**

Known or predicted distribution between environmental compartments:

Strongly adsorbed on soil, sediment and suspended particles.

Surface tension:

(no data)

Adsorption / Desorption:

Koc = 5800 - 160000. Not mobile in all types of soil, the substance remains fixed in the top 15 cm (field studies).

Volatility:

PV = 2.3×10^{-7} Pa à 20°C; substance is not considered VOC.
H = 0.024 Pa.m³/mol; low potential for volatilization.

- **Data on AROMATIC HYDROCARBON, CAS N° 64742-95-6:**

Product highly volatile, will partition into the air quickly. Is not likely to partition to sediment and wastewater solid phase.

12.5. Results of PBT and vPvB assessment

- **Data on CYPERMETHRIN, CAS N°52315-07-8 :**

This product is not a PBT or vPvB, or does not contain.

- **Data on AROMATIC HYDROCARBON, CAS N° 64742-95-6:**

This product is not a PBT or vPvB, or does not contain.

12.6. Other adverse effects


Data not available.

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

13.1. Waste treatment methods

Do not pour into drains or waterways.

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Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

Local arrangements:

France:

The regulation relating to waste is codified in the CODE OF the ENVIRONMENT, according to the Ordinance n°2000-914 of September 18, 2000 relating to the Legislative part of the code of the environment.

Various texts from article L. 541-1 to article L. 541-50 are in the Book V (Prevention of pollution, the risks and the harmful effects), Titre IV (Waste), Chapter I (Waste disposal and recovery of materials).

Waste code according to Decree 2002-540 of 18 April 2002 transposed into the Environmental Code:

- Waste Product code: 070400
- Packaging waste code: 150100

14 - TRANSPORT INFORMATION

14.1. UN Number

UN 3082

14.2. Shipping name of UN

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRINE, 9,8%)

14.3. Class of danger for transport

Transport Regulation	ADR/RID/ADNR	IMDG/OMI	IATA/ICAO
N° ONU	3082	3082	3082
Shipping name of UN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (CYPERMETHRINE 9.8%)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (CYPERMETHRINE 9.8%)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (CYPERMETHRINE 9.8%)
Labels	9	9	9
Hazard CLASS	9	9	9
Hazard code	90		
Marin pollutant		Y (Y/N)	
FS		F-A, S-F	

14.4. Packaging Group

III

14.5. Hazardous for the environment

Very toxic to aquatic life with long lasting effects according to regulation CE N° 1272/2008 [UE-GHS/CLP].

14.6. Special precautions for user

/

14.7. Bulk transport in accordance with Annex II of MARPOL 73/78 and the IBC

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15 - STATUTORY INFORMATION

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


Particular dispositions:

Nomenclature of classified installations (France):

- 1171 - Industrial Manufacture of substances or preparations hazardous to the environment-A and / or B-
- 1172 - Storage and use of substances or preparations dangerous for the environment, very toxic - A -

Tables of occupational diseases according to the Labor Code:

Table 4 bis, No. 84

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15.2. Chemical safety assessment

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16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 3:

- R 10 Flammable.
- R 20/22 Harmful by inhalation and if swallowed.
- R 37 Irritating to respiratory system.
- R 65 Harmful: may cause lung damage if swallowed.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.
- R 35 Causes severe burns.
- R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of hazard statements appearing in section 3:

- Acute Tox. 4 Acute Toxicity (category 4)
- STOT SE 3 Specific target organ toxicity — single exposure (category 3)
- Aquatic Acute 1 Harmful to the aquatic environment - Acute (category 1)
- Aquatic Chronic 1 Harmful to the aquatic environment - Chronic (category 1)
- Aquatic Chronic 2 Harmful to the aquatic environment - Chronic (category 2)
- Asp. Tox. 1 Aspiration hazard.
- Flam. Liq. 3: Flammable liquid (category 3)

- H 226 Flammable liquid and vapour.
- H 302 Harmful if swallowed.
- H 304 May be fatal if swallowed and enters airways.
- H 332 Harmful if inhaled.
- H 335 May cause respiratory irritation.
- H 336 May cause drowsiness or dizziness.
- H 400 Very toxic to aquatic life
- H 410 Very toxic to aquatic life with long lasting effects.
- H 411 Toxic to aquatic life with long lasting effects.

Modifications of version V04: - §2
 - §3
 - §8
 - §9
 - §11
 - §12