



SYLLIT 400 SC

Safety Data Sheet

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

Date of issue: 09/01/2004

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Version: 7.3

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

1.1. Product identifier

Product form : Mixture
Trade name : SYLLIT 400 SC
Product code : CA701646
Synonyms : Dodine 400 g/L SC

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

1.2.1. Relevant identified uses

Industrial/Professional use spec. : Agriculture.
Pesticide
Use of the substance/mixture : Fungicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

AGRIPHAR S.A.
Rue de Renory, 26/1
B-4102 Ougrée - Belgium
T +32 (0)4 385 97 11 - F +32 (0)4 385 97 49
info@agriphar.com - <http://www.agriphar.com>

1.4. Emergency telephone number

Emergency number : +32 (0)4 385 97 11 (8h - 16h35)
112 (European Emergency Number)

| Country | Official advisory body | Address | Emergency number |
|-----------|---|---|------------------|
| BELGIUM | Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid | Rue Bruyn B -1120Brussels | +32 70 245 245 |
| Worldwide | WHO | http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/index.html | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2 H315
Eye Dam. 1 H318
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R41
Xi; R38
N; R50/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols :



Xi - Irritant



N - Dangerous for the environment

Hazardous ingredients :

dodine

R-phrases :

R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases :

S2 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using do not eat, drink or smoke.
S23 - Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 - Wear eye/face protection.
S51 - Use only in well-ventilated areas.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|--------|---|---------|--|
| dodine | (CAS No.)2439-10-3 (EC no)219-549-5 (EC index no)607-076-00-X | 38 - 41 | T; R23 Xn; R22 Xi; R41 Xi; R38 N; R50/53 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------|---|---------|---|
| dodine | (CAS No.)2439-10-3 (EC no)219-549-5 (EC index no)607-076-00-X | 38 - 41 | Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately carefully and thoroughly with eye-bath or 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 : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately get medical attention.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry extinguishing powder. Carbon dioxide (CO₂). Water fog.
Unsuitable extinguishing media : High power water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non-flammable.
Reactivity : When exposed to heat, may decompose liberating hazardous gases.

5.3. Advice for firefighters

Precautionary measures fire : No naked lights. No smoking.
Firefighting instructions : Evacuate and limit access. Use water spray jet to protect personnel and to cool endangered containers.
Protection during firefighting : Wear full chemical protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Other information : Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : When leaks or spills occur, only properly protected personnel should remain in the area.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.
Emergency procedures : Evacuate area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Call in an expert. Eliminate every possible source of ignition.

6.1.2. For emergency responders

Protective equipment : Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Prevent spreading in sewers. Impound and recover large spill by mixing it with inert granular solids.
Methods for cleaning up : Collect spills and put it into appropriated container.
Other information : Special danger of slipping by leaking/spilling product.

6.4. Reference to other sections

Exposure controls/personal protection. Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not allow to enter into surface water or drains.
Handling temperature : at room temperature
Hygiene measures : Do no eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground well. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Storage conditions : Protect against direct sunlight.
Incompatible products : Strong acid. Strong bases. Oxidizing agents, strong.
Maximum storage period : 2 year(s)
Storage area : Keep container tightly closed in a cool, well-ventilated place. Provide for retaining containers, eg. floor pan without outflow.
Packaging materials : Keep only in the original container. Keep locked up.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Gloves. Gas mask. Safety glasses.



Hand protection : Wear suitable gloves resistant to chemical penetration. NBR (Nitrile rubber). For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection : Face shield. Chemical goggles or safety glasses.

Skin and body protection : Skin protection appropriate to the conditions of use should be provided.

Respiratory protection : If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls : Notify authorities if product enters sewers or public waters.

Other information : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : viscous. opaque.

Colour : white.

Odour : Negligible.

Odour threshold : No data available

pH : 6,1

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : > 85 °C

Self ignition temperature : 430 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1,015 g/cm³ (20°C)

Solubility : No data available

Log Pow : 0,96

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : 800 cP (20°C)

Explosive properties : not explosive.

Oxidising properties : not oxidizing.

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

When exposed to heat, may decompose liberating hazardous gases.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

None under normal conditions. Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Protect against direct sunlight. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong acid. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| SYLLIT 400 SC | |
|----------------------------|----------------|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | not applicable |

| dodine (2439-10-3) | |
|----------------------------|--------------|
| LD50 oral rat | 851 mg/kg |
| LD50 dermal rat | > 5000 mg/kg |
| LC50 inhalation rat (mg/l) | 0,45 mg/l/4h |

Irritation : Irritating to skin. Risk of serious damage to eyes.

pH: 6,1

Corrosivity : Not classified

pH: 6,1

Sensitisation : Not classified

Repeated dose toxicity : Not classified

Carcinogenicity : Not classified

Mutagenicity : Not classified

Toxicity for reproduction : Not classified

SECTION 12: Ecological information

12.1. Toxicity

| SYLLIT 400 SC | |
|----------------|--|
| LC50 fishes 1 | 3,4 mg/l (96h <i>Cyprinus carpio</i>) |
| EC50 Daphnia 1 | 123 µg/l (48h <i>Daphnia magna</i>) |
| ErC50 (algae) | 0,022 mg/l (72h <i>Selenastrum capricornutum</i>) |

| dodine (2439-10-3) | |
|--------------------|---|
| LC50 fishes 1 | 0,6 mg/l (96h <i>Cyprinus carpio</i>) |
| EC50 Daphnia 1 | 18 µg/l (48h <i>Daphnia magna</i> ; flow-through; a.i.) |
| EC50 Daphnia 2 | 146 µg/l (48h <i>Daphnia magna</i> ; static; a.i.+sediment) |
| ErC50 (algae) | 2,8 µg/l (120h <i>Selenastrum capricornutum</i>) |

12.2. Persistence and degradability

| dodine (2439-10-3) | |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |

12.3. Bioaccumulative potential

| SYLLIT 400 SC | |
|---------------|------|
| Log Pow | 0,96 |

| dodine (2439-10-3) | |
|--------------------|---------------------------------|
| Log Pow | 1,25 - 1,32 (20°C pH=4.9 - 9.1) |

12.4. Mobility in soil

| SYLLIT 400 SC | |
|-----------------|----------------|
| Surface tension | 27 mN/m (20°C) |

| dodine (2439-10-3) | |
|--------------------|------------------|
| Surface tension | 50,6 mN/m (20°C) |

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point.
Additional information : 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). Notify authorities if product enters sewers or public waters.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 3082

14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS dodine(2439-10-3)), 9, III, (E)

14.3. Transport hazard class(es)

Class (UN) : 9
Hazard labels (UN) : 9



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :
Marine pollutant :



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90
Classification code (UN) : M6
Orange plates :



Special provision (ADR) : 274, 335, 601
Transport category (ADR) : 3
Tunnel restriction code : E
Limited quantities (ADR) : 5L
LQ : LQ07
Excepted quantities (ADR) : E1

14.6.2. Transport by sea

EmS-No. (1) : F-A
EmS-No. (2) : S-F

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14.6.3. Air transport

Instruction "cargo" (ICAO) : 964/450L
Instruction "passenger" (ICAO) : 964/450L
Instruction "passenger" - Limited quantities (ICAO) : Y964/30 kg G

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

Product uses.

Full text of R-, H- and EUH-phrases::

| | |
|-------------------------------------|--|
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Skin Irrit. 2 | skin corrosion/irritation Category 2 |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H330 | Fatal if inhaled |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| R22 | Harmful if swallowed. |
| R23 | Toxic by inhalation. |
| R38 | Irritating to skin. |
| R41 | Risk of serious damage to eyes. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| N | Dangerous for the environment |
| T | Toxic |
| Xi | Irritant |
| Xn | Harmful |

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.