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ADAMA ABAMECTIN

Safety Data Sheet

according to the GHS Classification and labelling of chemicals – SANS 10234 and the Regulations for Hazardous Chemical agents 2021.

Issue date: 22/08/2022 Date of revision: 22/08//2025 Version. 1.0

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

1.1. Product identifier

Product form : Mixture
Active ingredient name : Abamectin
Trade name : ADAMA ABAMECTIN

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.
Industrial
For professional use only
Use of the substance/mixture : A translaminal emulsifiable concentrate insecticide and acaricide acting as a direct contact and stomach poison for the control of red mites, American leafminer and thrips on crops as listed
Use of the substance/mixture : Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ADAMA SOUTH AFRICA (PTY) LTD

Ground Floor, Simeka House
The Vineyards Office Estate
99 Jip de Jager Drive
Belville 7530
+27 21 982 1460
www.adama.com

1.4. Emergency telephone number

Emergency number : Griffon Poison Information Centre: 082 4468946,
Poisons Information Helpline: 0861 555 777,
In case of Spillage: Spill Tech: 086 100 0366 / 083 253 6618

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to UN GHS Purple Book (Rev. 9, 2021)

| | |
|---|-----------|
| Flammable liquids, Category 3 | H226 |
| Acute toxicity (dermal), Category 4 | H312 |
| Acute toxicity (oral, inhalation:dust,mist) Category 3 | H301+H331 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation | H335 |
| Specific target organ toxicity — Repeated exposure, Category 2 | H373 |
| Reproductive toxicity., Category 2 | H361 |
| Aspiration hazard, Category 1 | H304 |
| xxxxx | H400 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 1 | H410 |

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

ADAMA ABAMECTIN

Safety Data Sheet

according to the GHS Classification and labelling of chemicals – SANS 10234 and the Regulations for Hazardous agents 2021



2.2. Label elements

Labelling according to UN GHS Classification (Purple Book, Rev.9, 2021) (labelling to display Extra classification(s) to display)

Hazard pictograms



GHS02

GHS06

GHS08

GHS09

Signal word

: Danger

Hazardous ingredients

: Abamectin; xylene

Hazard statements

: H226 - Flammable liquid and vapour

H301+H331 – Toxic if swallowed or if inhaled

H312 - Harmful in contact with skin.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H373 - May cause damage to organs (central nervous system, liver, kidneys) through prolonged or repeated exposure (via inhalation).

H361 - Suspected of damaging fertility or the unborn child.

H304 - May be fatal if swallowed and enters airways.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

: P202 - Do not handle until all safety precautions have been read and understood.

P203- Obtain, read and follow all safety instructions before use.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 – Keep container tightly closed.

P240 – Ground and bond container and receiving equipment.

P241 – Use explosion-proof (electrical/ventilating/lighting) equipment.

P242 – Use non-sparking tools.

P243 – Take action to prevent static discharges.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray..

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P264+P265 – Wash hands thoroughly after handling. Do not touch eyes.

P270 – Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection./hearing protection.

P301+P316 – IF SWALLOWED: Get emergency medical help immediately.

P302+P352 – IF ON SKIN: Wash with plenty of water.

P303 +P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P316 – Get emergency medical help immediately.

P317 – Get medical help.

P318 – IF exposed or concerned, get medical advice.

P319 – Get medical help if you feel unwell.

P321 – Specific treatment (see FIRST AID instructions on this label.)

P330 - Rinse mouth.

P331 – Do NOT induce vomiting.

P332+P317 - If skin irritation occurs: Get medical help.

P337+P317- If eye irritation persists: Get medical help.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P370+P378 - In case of fire: Use media other than water to extinguish

P391 - Collect spillage.

P403+P233 – Store in a well-ventilated place. Keep container tightly closed.

P403+P235- Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

ADAMA ABAMECTIN

Safety Data Sheet

according to the GHS Classification and labelling of chemicals – SANS 10234 and the Regulations for Hazardous agents 2021



2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to UN GHS Purple Book, Rev.9, 2021 . |
|-----------|--|---------|--|
| xylene | (CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index-No.) 601-022-00-9 | 50 - 80 | Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 |
| Abamectin | (CAS-No.) 71751-41-2 (EC Index-No.) 606-143-00-0 | 1 - 2.5 | Repr. 2, H361 Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Inhalation), H330 Acute Tox. 3 (Dermal), H311 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000) |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|-----------|---|--|
| Abamectin | (CAS-No.) 71751-41-2 (EC Index-No.) 606-143-00-0 | (0.5 =<C < 5) STOT RE 2, H373 (5 =<C < 100) STOT RE 1, H372 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label). Call a POISON CENTER/doctor if you feel unwell. |
| First-aid measures after skin contact | : Immediately call a POISON CENTER/doctor. Specific measures (see supplemental first aid instruction on this label). Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

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

| | |
|-------------------------------------|---|
| Symptoms/effects | : Causes damage to organs. Suspected of damaging fertility or the unborn child. |
| Symptoms/effects after inhalation | : Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

No additional information available

ADAMA ABAMECTIN

Safety Data Sheet

according to the GHS Classification and labelling of chemicals – SANS 10234 and the Regulations for Hazardous agents 2021



5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| xylene (1330-20-7) | |
|--|---------------------------------|
| EU - Occupational Exposure Limits | |
| Local name | Xylene, mixed isomers, pure |
| IOELV TWA (mg/m ³) | 221 mg/m ³ |
| IOELV TWA (ppm) | 50 ppm |
| IOELV STEL (mg/m ³) | 442 mg/m ³ |
| IOELV STEL (ppm) | 100 ppm |
| Notes | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |

8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

ADAMA ABAMECTIN

Safety Data Sheet

according to the GHS Classification and labelling of chemicals – SANS 10234 and the Regulations for Hazardous agents 2021



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Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------------|
| Physical state | : Liquid |
| Colour | : Purple. |
| Odour | : aromatic. |
| Odour threshold | : No data available |
| pH | : 5.5 - 7 |
| 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 | : 71.5°C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 0.998 g/cm ³ |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|---------------------------------|
| Acute toxicity (oral) | : Toxic if swallowed |
| Acute toxicity (dermal) | : Harmful in contact with skin. |
| Acute toxicity (inhalation) | : Toxic if inhaled. |

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| | |
|-----------------------------|---------------|
| ATE (dermal) calculated | 1088,44 mg/kg |
| ATE (oral) calculated | 209.75 mg/kg |
| ATE (inhalation) calculated | 0.78 mg/l/4h |

ADAMA ABAMECTIN

Safety Data Sheet

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| Abamectin (71751-41-2) | |
|-------------------------------|---------------|
| LD50 oral | 5 mg/kg (ATE) |
| LD50 dermal rat | > 330 mg/kg |
| LC50 inhalation rat (mg/l) | 0.034 mg/l/4h |

| Xylene (1330-20-7) | |
|----------------------------|-------------------|
| LD50 oral | 3523 mg/kg |
| LD50 dermal rat | 1100 mg/kg (ATE) |
| LC50 inhalation rat (mg/l) | 1.5 mg/l/4h (ATE) |

| | |
|---|---|
| Skin corrosion/irritation | : Causes skin irritation. pH: 5.5 - 7 |
| Serious eye damage/irritation | : Causes serious eye irritation. pH: 5.5 - 7 |
| Respiratory or skin sensitisation | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Reproductive toxicity | : Suspected of damaging fertility or the unborn child. |
| STOT-single exposure | : May cause respiratory irritation. |
| STOT-repeated exposure | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
| Potential adverse human health effects and symptoms | : Harmful in contact with skin. Toxic if inhaled. Toxic if swallowed. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - water | : Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Very toxic to aquatic life. |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

| ADAMA ABAMECTIN | |
|------------------------|--------------|
| ATE fish calculated | 0.27 mg/l |
| ATE daphnia calculated | 0.00012 mg/l |
| ATE algae calculated | 4.46 mg/l |

| Abamectin (71751-41-2) | |
|-------------------------------|---|
| LC50 fish | 0.007 mg/l/96h rainbow trout |
| EC50 Daphnia | 0.00012 mg/l/48h |
| EC50 Algae | >100 mg/l/72h Pseudokirchneriella subcapitata |

| Xylene (1330-20-7) | |
|---------------------------|---|
| LC50 fish | 2.60 mg/l/96h rainbow trout |
| EC50 Algae | 4.36 mg/l/72h Pseudokirchneriella subcapitata |

12.2. Persistence and degradability

| ADAMA ABAMECTIN | |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |

12.3. Bioaccumulative potential

| ADAMA ABAMECTIN | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

ADAMA ABAMECTIN

Safety Data Sheet

according to the GHS Classification and labelling of chemicals – SANS 10234 and the Regulations for Hazardous agents 2021



| Abamectin (71751-41-2) | |
|------------------------|------------------|
| BCF fish | 69 L/kg |
| Log Pow | 4.4 (20°C, pH=7) |

12.4. Mobility in soil

| Abamectin (71751-41-2) | |
|------------------------|------------------|
| Surface tension | 52.4 mN/m (20°C) |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

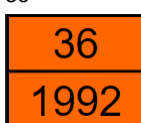
| ADR | IMDG | IATA | RID |
|---|---|---|---|
| 14.1. UN number | | | |
| UN 1992 | UN 1992 | UN 1992 | UN 1992 |
| 14.2. UN proper shipping name | | | |
| FLAMMABLE LIQUID, TOXIC, N.O.S. | FLAMMABLE LIQUID, TOXIC, N.O.S. | FLAMMABLE LIQUID, TOXIC, N.O.S. | FLAMMABLE LIQUID, TOXIC, N.O.S. |
| Transport document description | | | |
| UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS | UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS | UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS | UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard class(es) | | | |
| 3 | 3 | 3 | 3 |
| | | | |
| 14.4. Packing group | | | |
| III | III | III | III |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes Marine pollutant : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

Hazard identification number (Kemler No.) : 36

Orange plates :



14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

ADAMA ABAMECTIN

Safety Data Sheet

according to the GHS Classification and labelling of chemicals – SANS 10234 and the Regulations for Hazardous agents 2021



SECTION 15: Regulatory information

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

Regulatory Information:

Relevant regulatory information regarding authorization, Safety Data Sheets, Occupational Exposure Limits, Hazardous Substances, Dangerous Goods Transport and Waste

South Africa: Occupational Health and Safety Act 1993. Regulations for Hazardous Chemical Agents - 2021. Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Hazardous Substances Act, 1973 (Act No.15 of 1973). Regulations for Hazardous Chemical Agents – 2021. SANS11014:2010. Safety Data Sheet for Chemical Products – Content and Order of Sections. SANS10206: 2020. The Handling, Storage and Disposal of Pesticides. National Road Traffic Act, 1996 (Act No. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management: waste Act 59 of 2008 .

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : Pesticide manual. ECHA

Other information : None.

| Full text of H- statements: | |
|-----------------------------|--|
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhalation.), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), 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 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 4 | Flammable liquids, Category 4 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H227 | Combustible liquid. |
| H301 | Toxic if swallowed |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Classification and procedure used to derive the classification for the mixture according to the UN GHS Purple Book (Rev.9, 2021):

| | | |
|---------------------------|------|--------------------|
| Acute Tox. 3 (Inhalation) | H331 | Calculation method |
| Acute Tox. 3 (Oral) | H301 | Calculation method |
| Acute Tox. 4 (Dermal) | H312 | Calculation method |
| Aquatic Acute 1 | H400 | Calculation method |
| Aquatic Chronic 1 | H410 | Calculation method |

ADAMA ABAMECTIN

Safety Data Sheet

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| | | |
|---------------|------|--------------------|
| Asp. Tox. 1 | H304 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| Flam. Liq. 3 | H226 | Calculation method |
| Repr. 2 | H361 | Calculation method |
| Skin Irrit. 2 | H315 | Calculation method |
| STOT RE 2 | H335 | Calculation method |
| STOT SE 3 | H373 | Calculation method |

Safety Data Sheet (SDS), UN GHS

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.