

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

### 1.1. Product identifier

Product form : Mixture  
Name : Maleic hydrazide potassium salt 80.4 %w/w - SG  
Trade name : Fazor

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : Plant protection products  
Use of the substance/mixture : Plant growth regulator

#### 1.2.2. Uses advised against

Restrictions on use : No known evidence against using

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

Arysta LifeScience Great Britain Ltd.  
Brooklands Farm  
Cheltenham Road  
WR11 2LS Evesham - United Kingdom  
T +44 1386 425500  
[sds.info@upl-ltd.com](mailto:sds.info@upl-ltd.com)

### 1.4. Emergency telephone number

Emergency number : Europe/Rest of the world (English): +44(0)1235 239670

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS09

CLP Signal word : -

Hazard statements (CLP) :

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P273 - Avoid release to the environment.  
P391 - Collect spillage.  
P501 - Dispose of contents/container to an approved waste disposal plant.

EUH-statements :

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

### 2.3. Other hazards

Other hazards not contributing to the classification : This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Potential dust explosion hazard from airborne release.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isotridecanol, ethoxylated	(CAS-No.) 9043-30-5 (EC-No.) 500-027-2	10 - 20	Eye Dam. 1, H318

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	(CAS-No.) 68081-81-2 (EC-No.) 268-356-1	0.25 - 2.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
Alkylated naphthalene sulfonate sodium salt	(CAS-No.) 68425-94-5	1 - 2.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulphonated, sodium salts	(CAS-No.) 1258274-08-6 (EC-No.) 800-660-7 (REACH-no) 01-2119980591-31	1 - 2.5	Skin Irrit. 2, H315 Eye Dam. 1, H318
Potassium hydroxide	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3 (EC Index-No.) 019-002-00-8 (REACH-no) 01-2119487136-33	1 - 2.5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Potassium hydroxide	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3 (EC Index-No.) 019-002-00-8 (REACH-no) 01-2119487136-33	( 0.5 =<C < 2) Skin Irrit. 2, H315 ( 0.5 =<C < 2) Eye Irrit. 2, H319 ( 2 =<C < 5) Skin Corr. 1B, H314 ( 5 =<C < 100) Skin Corr. 1A, H314

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a doctor.
First-aid measures after skin contact	: Wash off with soap and plenty of water. If case of redness or irritation, call a doctor. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If irritation persists, consult an eye specialist.
First-aid measures after ingestion	: Rinse mouth out with water. Drink plenty of water as a precaution. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

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

Symptoms/effects : None known.

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

The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : The product itself does not burn. Use extinguishing media appropriate for surrounding fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.  
Hazardous decomposition products in case of fire : None known.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing.  
Other information : Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid creating or spreading dust. Avoid breathing dust. Ventilate spillage area. Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

Protective equipment : Concerning personal protective equipment to use, see section 8.

### 6.2. Environmental precautions

Do not allow to enter drains or water courses.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

### 6.4. Reference to other sections

Concerning disposal elimination after cleaning, see section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	: Handle and open container with care. Avoid dust formation. Avoid contact with skin, eyes and clothing. Concerning personal protective equipment to use, see section 8. Keep container closed when not in use.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Remove contaminated clothes. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container tightly closed. Store in dry, cool, well-ventilated area.
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#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Observe the label precautions.

##### Hand protection:

Polyvinyl alcohol or nitrile-butyl rubber gloves. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374. Before removing gloves clean them with soap and water

##### Eye protection:

Sealed safety goggles

##### Skin and body protection:

Dust impervious protective suit

##### Respiratory protection:

If dust are formed : Breathing apparatus with filter

##### Environmental exposure controls:

Prevent entry to sewers and public waters.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granulate.
Colour	: light brown.
Odour	: slight.
Odour threshold	: No data available
pH	: 8 - 12 (1 % Aqueous solution)
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: 304 °C
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: >= 100 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: The product is not flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: Not applicable
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: Not applicable
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not applicable
Explosive properties	: No data available

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Oxidising properties : Non oxidizing.  
Explosive limits : No data available

### 9.2. Other information

Bulk density : 0.551 g/ml (poured)  
Bulk density : 0.594 g/ml (tapped)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidising agents.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

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LD50 oral rat	7500 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg (US EPA FIFRA 81-2)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5 mg/l/4h (US EPA FIFRA 81-3)

#### Potassium hydroxide (1310-58-3)

LD50 oral rat	333 mg/kg (conventional method) - 388 mg/kg (up-and-down method)
Skin corrosion/irritation	: Not classified. (Based on available data, the classification criteria are not met)
Additional information	: Slightly irritant but not relevant for classification (rabbit) (OECD 404 method)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Slightly irritant but not relevant for classification (rabbit) (US EPA FIFRA 81-4)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Buehler Test : Does not cause cutaneous sensitisation for guinea-pigs (OECD 406 method)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Technical impossibility to obtain the data)

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity : Not classified  
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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LC50 fish	130.8 mg/l/96h (Oncorhynchus mykiss (Rainbow trout))
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EC50 Daphnia	244 mg/l/48h (Daphnia magna)
NOEC chronic fish	30 mg/l (21 days, Oncorhynchus mykiss (Rainbow trout))
NOEC chronic crustacea	0.95 mg/l (21 days, Daphnia magna)
NOEC, fish	111.3 mg/l/96h (Oncorhynchus mykiss (Rainbow trout))
NOEC, aquatic invertebrates	207.2 mg/l/48h (Daphnia magna)
EC50, aquatic algae	445.2 mg/l/72h (Pseudokirchneriella subcapitata)
NOEC, aquatic algae	179.6 mg/l/72h (Pseudokirchneriella subcapitata)
LC50, fish, long term	> 88 mg/l (21 days, Oncorhynchus mykiss (Rainbow trout))
EC50, aquatic invertebrates, long term	110 mg/l (21 days, Daphnia magna)
EC50, plants	12.3 mg/l (7 days, Myriophyllum aquaticum)
NOEC, plants	3.2 mg/l (7 days, Myriophyllum aquaticum)
EC50, plants	54.4 mg/l (4, Myriophyllum aquaticum)
NOEC, plants	10.0 mg/l (4 days, Myriophyllum aquaticum)
EC50, plants	94.1 mg/l (7 days, Lemna gibba)
NOEC, plants	19.5 mg/l (7 days, Lemna gibba)

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

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Log Pow	Not applicable
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### 12.4. Mobility in soil

No additional information available

### 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

Waste treatment methods	: Dispose of in accordance with relevant local regulations.
Product/Packaging disposal recommendations	: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
<b>14.1. UN number</b>		
UN 3077	UN 3077	UN 3077
<b>14.2. UN proper shipping name</b>		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
<b>Transport document description</b>		
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Maleic hydrazide potassium salt ; Isotridecanol, ethoxylated), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Maleic hydrazide potassium salt ; Isotridecanol, ethoxylated), 9, III, MARINE POLLUTANT	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Maleic hydrazide potassium salt ; Isotridecanol, ethoxylated), 9, III
<b>14.3. Transport hazard class(es)</b>		
9	9	9

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### 14.4. Packing group

III

III

III

### 14.5. Environmental hazards

Dangerous for the environment : Yes

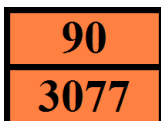
Dangerous for the environment : Yes  
Marine pollutant : Yes

Dangerous for the environment : Yes

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : M7  
Special provisions (ADR) : 274, 335, 375, 601  
Limited quantities (ADR) : 5kg  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P002, IBC08, LP02, R001  
Special packing provisions (ADR) : PP12, B3  
Mixed packing provisions (ADR) : MP10  
Portable tank and bulk container instructions (ADR) : T1, BK1, BK2, BK3  
Portable tank and bulk container special provisions (ADR) : TP33  
Tank code (ADR) : SGAV, LGBV  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V13  
Special provisions for carriage - Bulk (ADR) : VC1, VC2  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13  
Hazard identification number (Kemler No.) : 90  
Orange plates :



Tunnel restriction code : -

#### Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969  
Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP02, P002  
Special packing provisions (IMDG) : PP12  
IBC packing instructions (IMDG) : IBC08  
IBC special provisions (IMDG) : B3  
Tank instructions (IMDG) : BK1, BK2, BK3, T1  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-F  
Stowage category (IMDG) : A  
Stowage and handling (IMDG) : SW23

#### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y956  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 956  
PCA max net quantity (IATA) : 400kg  
CAO packing instructions (IATA) : 956  
CAO max net quantity (IATA) : 400kg  
Special provisions (IATA) : A97, A158, A179, A197  
ERG code (IATA) : 9L

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

Not applicable

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## Safety Data Sheet

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### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : E2 Hazardous to the Aquatic Environment in Category Chronic 2

##### 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

#### Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
LD50	Median lethal dose
LC50	Median lethal concentration
EC50	Median effective concentration
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
OECD	Organisation for Economic Co-operation and Development

#### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aquatic Chronic 2	H411	On basis of test data
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Safety Data Sheet applicable for regions

: EU - Europe

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.*