

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

1.1. Product identifier

Product form : Mixture
Trade name : Kingpin
Product code : R707
Type of product : EC: Emulsifiable concentrate

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Insecticide
Function or use category : Agriculture.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Belchim Crop Protection NV/SA
Technologielaan 7
1840 Londerzeel - Belgium
T +32 (0)52 30 09 06 - F +32 (0)52 30 11 35
info@belchim.com - www.belchim.com

1.4. Emergency telephone number

Emergency number : +32(0)14584545
24 H/7 days

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Flammable liquids, Category 3	H226
Acute toxicity (oral), Category 4	H302
Acute toxicity (inhal.), Category 4	H332
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Acute Hazard, Category 1	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

Flammable liquid and vapour. May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.
H302+H332 - Harmful if swallowed or if inhaled

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

	<p>H304 - May be fatal if swallowed and enters airways. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H373 - May cause damage to organs through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.</p>
Precautionary statements (CLP)	<p>: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing fume, gas, mist, spray, vapours, dust. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 - Do NOT induce vomiting. P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.</p>
EUH-statements	: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
Extra phrases	: For additional information regarding the extra phrases (SP), please refer to the label.

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	Conc (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Xylene	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index-No.) 601-022-00-9	>= 10	Flam. Liq. 3, H226 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
Ethylbenzene	(CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index-No.) 601-023-00-4	>= 10	Flam. Liq. 2, H225 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
Aromatic Hydrocarbons C8	(CAS-No.) 90989-38-1 (EC-No.) 292-694-9 (EC Index-No.) 648-010-00-X	>= 10	Flam. Liq. 3, H226 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
Esfenvalerate	(CAS-No.) 66230-04-4 (EC Index-No.) 608-058-00-4	2,5	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000)
2-Phenoxyethanol	(CAS-No.) 122-99-6 (EC Index-No.) 204-589-7	>= 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects	: Harmful if swallowed or if inhaled. May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

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

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
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Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment.
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Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Maximum storage period : 2 year

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information : Not applicable

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Insulated gloves. In case of dust production: dustproof clothing. Safety glasses.

Materials for protective clothing:

Neoprene or nitrile rubber gloves

Hand protection:

Protective gloves

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

Wash all protective clothing after use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Transparent.
Colour	: light yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
pH solution	: 7,2 (1% water;21 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 26,8 °C
Auto-ignition temperature	: 476 °C
Decomposition temperature	: > 360 °C (Esfenvalerate)
Flammability (solid, gas)	: Flammable

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,89 g/ml (20°C)
Solubility	: Emulsifiable in water.
Log Pow	: No data available
Viscosity, kinematic	: 0,8835 - 1,1353 mm ² /s (40°C - 20 °C)
Viscosity, dynamic	: No data available
Explosive properties	: At or above flash point, vapours present may burn in open or explode if confined when mixed with air and exposed to ignition source.
Oxidising properties	: None.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions. Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Protect from sunlight. Water, humidity.

10.5. Incompatible materials

alkaline products.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Inhalation: Harmful if inhaled.

Kingpin	
LD50 oral rat	436 mg/kg (OECD 401)
LD50 dermal rat	> 2000 mg/kg (OECD 402)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	4,8 mg/l/4h (OECD 403)

Esfenvalerate (66230-04-4)	
LD50 oral rat	88,5 mg/kg (OECD 401)
LD50 dermal rat	> 5000 mg/kg (OECD 402)
LC50 inhalation rat (mg/l)	0,48 - 0,57 mg/l/4h (male - female) (OECD 403)

Skin corrosion/irritation	: Slightly irritant but not relevant for classification
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: No teratogenic effect

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : May be fatal if swallowed and enters airways.

Kingpin	
Viscosity, kinematic	0,8835 - 1,1353 mm ² /s (40°C - 20 °C)

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects. (Results obtained on a similar product).
 Acute aquatic toxicity : Very toxic to aquatic life.
 Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.
 Additional information : (Results based on a similar product).

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LC50 fish 1	4,5 µg/l (96 h; Oncorhynchus mykiss; OECD 203)
EC50 Daphnia 1	3,4 µg/l (48 h; Daphnia magna; OECD 202)
ErC50 (algae)	0,215 mg/l (24-48 h; Scenedesmus subspicatus; OECD 201)
NOEC chronic fish	180 ng/l (21d; Oncorhynchus mykiss; OECD 204))
NOEC chronic crustacea	56 ng/l (21d; Daphnia magna; OECD 202)
NOEC chronic algae	0,05 mg/l (96 h; Scenedesmus subspicatus)
Additional information	Not toxic to bees

Esfenvalerate (66230-04-4)	
LC50 fish 1	0,1 µg/l (96 h; Oncorhynchus myliss; OECD 203)
LC50 fish 2	0,205 µg/l (96 h; Lepomis macrochirus; OECD 203)
EC50 Daphnia 1	27 µg/l (48 h; Daphnia magna; OECD 202)
ErC50 (algae)	0,01 mg/l (24-48 h; Scenedesmus subspicatus; OECD 201)
NOEC chronic fish	1 ng/l (Oncorhynchus mykiss; OECD 204)
NOEC chronic crustacea	52 ng/l (21 d; Daphnia magna; EPA/600/4-85/013)
NOEC chronic algae	1000 ng/l (96 h; Scenedesmus subspicatus; OECD 201)

12.2. Persistence and degradability

Esfenvalerate (66230-04-4)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Esfenvalerate (66230-04-4)	
BCF other aquatic organisms 1	3110 (28 days; Cyprinus carpio)
Log Pow	6,24 (25°C)

12.4. Mobility in soil

Esfenvalerate (66230-04-4)	
Mobility in soil	85700 - 596200 (Adsorption)
Ecology - soil	Low mobility (soil).

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : practically non-toxic to bees

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Waste instruction.
 Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
 Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1993	1993	1993	1993	1993
14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S. (Xylene)	FLAMMABLE LIQUID, N.O.S. (Xylene)	Flammable liquid, n.o.s. (Xylene)	FLAMMABLE LIQUID, N.O.S. (Xylene)	FLAMMABLE LIQUID, N.O.S. (Xylene)
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (Xylene), 3, III, (D/E), ENVIRONMENTALLY	UN 1993 FLAMMABLE LIQUID, N.O.S. (Xylene), 3, III, MARINE POLLUTANT/ENVIRONM	UN 1993 Flammable liquid, n.o.s. (Xylene), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Xylene), 3, III, ENVIRONMENTALLY	UN 1993 FLAMMABLE LIQUID, N.O.S. (Xylene), 3, III, ENVIRONMENTALLY

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ADR	IMDG	IATA	ADN	RID
HAZARDOUS	ENTALLY HAZARDOUS		HAZARDOUS	HAZARDOUS
14.3. Transport hazard class(es)				
3	3	3	3	3
14.4. Packing group				
III	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	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Special provisions (ADR) : 274, 601

Orange plates :



- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

Classification code (ADN) : F1

Number of blue cones/lights (ADN) : 0

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

National regulation

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : SDS of suppliers.

Full text of H- and EUH-statements:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4

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Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
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
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.
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]:

Flam. Liq. 3	H226	On basis of test data
Acute Tox. 4 (Oral)	H302	On basis of test data
Acute Tox. 4 (Inhalation)	H332	On basis of test data
Eye Dam. 1	H318	On basis of test data
Skin Sens. 1	H317	On basis of test data
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	On basis of test data Calculation method
Aquatic Acute 1	H400	On basis of test data
Aquatic Chronic 1	H410	On basis of test data

SDS EU 2018-03-07 EXESS 17.2.0.2_BCP

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