

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

1.1. Product identifier

Product form : Mixture
Trade name : Kunshi
Product code : FT-931, ASCE 3760
Type of product : WG (Water dispersible granule)

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

1.2.1. Relevant identified uses

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

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/English/French/German/Dutch

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361fd
Specific target organ toxicity — Repeated exposure, Category 2	H373
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

Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Causes serious eye irritation. 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) :



GHS07

GHS08

GHS09

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 - May cause damage to the blood and thymus through prolonged or repeated exposure if swallowed.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P261 - Avoid breathing dust.
P280 - Wear protective gloves, protective clothes and eye protection/face protection.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
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 nonhazardous waste.

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EUH-statements : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
EUH210 - Safety data sheet available on request.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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]
Fluazinam (ISO)	(CAS-No.) 79622-59-6 (EC-No.) 612-287-00-5	25 – 50	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Repr. 2, H361d Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
cymoxanil (ISO); 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide	(CAS-No.) 57966-95-7 (EC-No.) 261-043-0 (EC Index-No.) 616-035-00-5	25 – 50	Repr. 2, H361fd Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt	(CAS-No.) 81065-51-2	5 – 10	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Disodium maleate	(CAS-No.) 371-47-1 (EC-No.) 206-738-1	0.1 – 0.4	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation : Move the affected person to the fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Wash skin with mild soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Do not apply (chemical) neutralizing agents. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Call a doctor. Do not give an unconscious person anything to drink.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.
Symptoms/effects after eye contact : Eye irritation.
Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.
Chronic symptoms : May impair fertility and cause harm to the unborn child.

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 : Polyvalent foam. ABC-powder. Carbon dioxide. For large fire: Water spray. Alcohol-resistant foam.
Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic and corrosive vapours may be released. Nitrous fumes. hydrogenchloride. Hydrofluoric Acid. Sulphur oxides. Carbon monoxide. Carbon dioxide.

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5.3. Advice for firefighters

- Firefighting instructions : Dilute toxic gases with water spray. Use water moderately and if possible collect or contain it.
- Protection during firefighting : Full protective flameproof clothing. Gloves. face shield. Heat/fire exposure: compressed air/oxygen apparatus.
- Other information : Do not dispose of fire-fighting water in the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate area. No open flames. No smoking.

6.1.1. For non-emergency personnel

- Emergency procedures : Do not breathe dust. Avoid contact with skin and eyes.

6.1.2. For emergency responders

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

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak without risks if possible. Prevent entry to sewers and public waters. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Contain leaking substance, pump over in suitable containers. Store in tightly closed, leak-proof containers. Knock down/dilute dust cloud with water spray.
- Methods for cleaning up : Large spills: scoop solid spill into closing containers. Do not use compressed air for pumping over spills. Carefully collect remainder. Clean contaminated surfaces with an excess of water.
- Other information : Avoid creating or spreading dust. Prevent dispersion by covering with dry sand/earth. Wash clothing and equipment after handling.

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 : Do not get in eyes, on skin, or on clothing. Avoid raising dust. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Hygiene measures : Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. If on skin, take off contaminated clothing. Avoid any direct contact with the product. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide adequate ventilation to minimize dust concentrations.
- Storage conditions : Keep only in original container. Keep the container hermetically sealed. Store in a dry, cool area.
- Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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:

Provide local exhaust or general room ventilation. Limit exposure time and number of exposed workers to product.

Hand protection:

Protective gloves. Breakthrough time : refer to the recommendations of the supplier. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374

Eye protection:

In case of dust production: protective goggles. Face shield

Skin and body protection:

Complete protective clothing. If dust are formed : Head/neck protection. Dustproof clothing

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Respiratory protection:

Dust production: dust mask with filter type P2

Other information:

Do not expose pregnant or breastfeeding women.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granulate.
Colour	: Beige.
Odour	: Chemical.
Odour threshold	: No data available
pH	: No data available
pH solution	: 6.66 (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	: Not applicable
Auto-ignition temperature	: 352 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

VOC content	: 0 %
Bulk density	: 0.5393 g/ml

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

None to our knowledge.

10.4. Conditions to avoid

Open flame. Heat and ignition sources.

10.5. Incompatible materials

No additional information available.

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)	: 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
Additional information	: Not significant Inhalation unlikely

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Kunshi	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	Not applicable

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Not irritating to rabbits on cutaneous application
Serious eye damage/irritation	: Causes serious eye irritation.
Additional information	: moderate eye irritation
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
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)

Fluazinam (ISO) (79622-59-6)	
NOAEL (chronic, oral, animal/male, 2 years)	1.9 mg/kg bodyweight

cymoxanil (ISO); 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide (57966-95-7)	
NOAEL (chronic, oral, animal/male, 2 years)	4.08 mg/kg bodyweight

Reproductive toxicity : Suspected of damaging fertility. Suspected of damaging the unborn child.

Fluazinam (ISO) (79622-59-6)	
NOAEL (animal/male, F0/P)	1.5 mg/kg bodyweight (day; rat)
NOAEL (animal/male, F1)	7.26 mg/kg (day; rat)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Fluazinam (ISO) (79622-59-6)	
NOAEL (oral, rat, 90 days)	4.1 mg/kg bodyweight/day

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

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.

Kunshi	
LC50 fish 1	180 µg/l (96h - Oncorhynchus mykiss (Rainbow trout))
EC50 Daphnia 1	230 µg/l (48h - Daphnia magna)
ErC50 (algae)	1.64 mg/l (72h - Pseudokirchneriella subcapitata)

Fluazinam (ISO) (79622-59-6)	
NOEC chronic fish	0.0029 mg/l (278d - Pimephales promelas)
NOEC chronic crustacea	0.0125 mg/l (21d - Daphnia magna)

cymoxanil (ISO); 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide (57966-95-7)	
NOEC chronic fish	0.044 mg/l (90d - Oncorhynchus mykiss (Rainbow trout))
NOEC chronic crustacea	0.067 mg/l (21d - Daphnia magna)

12.2. Persistence and degradability

Fluazinam (ISO) (79622-59-6)	
Persistence and degradability	Not readily biodegradable.

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cymoxanil (ISO); 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide (57966-95-7)

Persistence and degradability Not readily biodegradable.

Methylnaphthalenesulfonic acid/formaldehyde, copolymer, sodium salt (81065-51-2)

Persistence and degradability Not rapidly degradable.

12.3. Bioaccumulative potential

Fluazinam (ISO) (79622-59-6)

BCF fish 1 1090 (Lepomis macrochirus)

Partition coefficient n-octanol/water (Log Pow) 4.03 (25 °C; pH 5.5-7)

cymoxanil (ISO); 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide (57966-95-7)

Partition coefficient n-octanol/water (Log Pow) 0.64 (20°C, pH unbuffered, 99.1%); Log Pow = 0.59 (20°C, pH 5, 99.9%); Log Pow = 0.67 (20°C, pH 7, 99.9%)

12.4. Mobility in soil

Fluazinam (ISO) (79622-59-6)

Partition coefficient n-octanol/water (Log Koc) 3.29

cymoxanil (ISO); 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide (57966-95-7)

Partition coefficient n-octanol/water (Log Koc) 1.64

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not dispose of with domestic waste.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
Special provision(s) applied : 375	Special provision(s) applied : 969	Special provision(s) applied : A197	Special provision(s) applied : 375	Special provision(s) applied : 375

These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

14.1. UN number

UN 3077

UN 3077

UN 3077

UN 3077

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam, Cymoxanil)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam, Cymoxanil)

Environmentally hazardous substance, solid, n.o.s. (Fluazinam, Cymoxanil)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam, Cymoxanil)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam, Cymoxanil)

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Transport document description				
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam, Cymoxanil), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam, Cymoxanil), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. (Fluazinam, Cymoxanil), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam, Cymoxanil), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam, Cymoxanil), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
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				

No supplementary information available

14.6. Special precautions for user

Overland transport

Special provisions (ADR)

: 274, 335, 375, 601

Orange plates



EAC code

: 2Z

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

Classification code (ADN)

: M7

Number of blue cones/lights (ADN)

: 0

Additional requirements/Remarks (ADN)

: * Only in the molten state. ** For carriage in bulk see also 7.1.4.1. *** Only in the case of transport in bulk.

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

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.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content

: 0 %

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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

Indication of changes:

Section	Changed item	Change	Comments
2.1	Additional information	Added	
14.1	Additional information	Added	

Data sources : SDS of suppliers.

Full text of H- and EUH-statements:

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
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
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
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging 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.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

SDS EU (REACH Annex II) 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.