

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Ranman Top  
Product code : IKF-916 160SC; IBE 3967  
Type of product : SC (Suspension Concentrate)

#### 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  
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

##### Distributor

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](mailto:info@belchim.com) - [www.belchim.com](http://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]

Serious eye damage/eye irritation, Category 2 H319  
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

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

GHS09

Signal word (CLP) : Warning  
Hazard statements (CLP) : H319 - Causes serious eye irritation.  
H410 - Very toxic to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, face protection, protective gloves.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: 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  
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

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

### 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]
cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide	(CAS-No.) 120116-88-3 (EC Index-No.) 616-166-00-8	10 - 20	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
1,1,1,3,5,5,5-Heptamethyl-3-(propyl(poly(EO))hydroxy)trisiloxane	(CAS-No.) 67674-67-3	10 - 20	Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Naphthalenesulfonic acid, methyl-, polymer with formaldehyde, sodium salt	(CAS-No.) 81065-51-2	1 - 5	Eye Dam. 1, H318
Sodium dioctyl sulphosuccinate	(CAS-No.) 577-11-7 (REACH-no) 01-2119491296-29	1 - 5	Skin Irrit. 2, H315 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	: Consult a doctor/medical service if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash skin with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an opthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

Symptoms/effects after eye contact : Eye irritation.

#### 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 : All extinguishing agents can be used.

#### 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. Sulphur oxides. Hydrofluoric Acid. hydrogenchloride. Carbon oxides (CO, CO<sub>2</sub>).

#### 5.3. Advice for firefighters

Firefighting instructions	: Dilute toxic gases with water spray. Contain the extinguishing fluids by bunding (the product is hazardous for the environment).
Protection during firefighting	: Gloves. Protective non-flammable clothing. Heat/fire exposure: compressed air/oxygen apparatus. Safety glasses.
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.

##### 6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.  
Emergency procedures : Avoid contact with skin and eyes. Do not breathe vapours.

##### 6.1.2. For emergency responders

Protective equipment : Protective gloves. Protective clothing. Eye protection.

#### 6.2. Environmental precautions

Contain the spilled material by bunding. Contain leaking substance, pump over in suitable containers. Stop leak if safe to do so. Do not flush into surface water or sewer system. Do not allow uncontrolled discharge of product into the environment.

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

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For containment	: Take up liquid spill into absorbent material, e.g.: sand/earth. Shovel into suitable and closed container for disposal. Carefully collect remainder.
Methods for cleaning up	: Clean contaminated surfaces with an excess of water.
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	: Do not get in eyes, on skin, or on clothing. Do not discharge the waste into the drain.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

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

Technical measures	: The floor of the depot should be impermeable and designed to form a water-tight basin.
Storage conditions	: Keep the container hermetically sealed. Store at ambient temperature.
Maximum storage period	: 2 year
Packaging materials	: Keep only in original container.

### 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.

#### Hand protection:

Protective gloves. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Not necessary with sufficient ventilation

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: clear.
Colour	: brown.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
pH solution	: 7.17 (Aqueous solution 1%)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 79 °C
Auto-ignition temperature	: 436 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available

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Relative vapour density at 20 °C	: No data available
Relative density	: 1.0809 (20 °C)
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 63 - 515 mPa.s (40°C); 156-914 mPa.s (20°C)
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## 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

Avoid formation of vapours.

### 10.5. Incompatible materials

None to our knowledge.

### 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. Based on available data, the classification criteria are not met

Ranman Top	
LD50 oral rat	> 2000 mg/kg bodyweight (female) (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (male/female) (OECD 402 method)
LC50 inhalation rat (mg/l)	> 5.915 mg/l (Aerosol) (OECD 403 method)
Skin corrosion/irritation	: Not classified
Additional information	: Not irritating to rabbits on cutaneous application (OECD 404 method)
Serious eye damage/irritation	: Causes serious eye irritation.
Additional information	: Irritating to rabbits on ocular application (OECD 405 method)
Respiratory or skin sensitisation	: Not classified
Additional information	: 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

### cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

NOAEL (chronic, oral, animal/male, 2 years)	> 171 mg/kg bodyweight (rat)
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Reproductive toxicity : Not classified

### cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

NOAEL (animal/male, F0/P)	89 mg/kg bw/day (rat)
NOAEL (animal/male, F1)	89 mg/kg bw/day (rat)

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

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### cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

NOAEL (oral, rat, 90 days)	29.5 mg/kg bodyweight/day
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Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

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LC50 fish 1	67.89 mg/l (96 hours) (Oncorhynchus mykiss) (OECD 203 method)
EC50 Daphnia 1	13.5 mg/l (48 hours) (Daphnia magna) (OECD 202 method)
ErC50 (algae)	48.71 mg/l (72 h) (Pseudokirchneriella subcapitata) (OECD 201 method)
NOEC (acute)	0.5 mg/l (72 hours) (Pseudokirchneriella subcapitata) (OECD 201 method)

### cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

NOEC chronic fish	0.09 mg/l (28d) (Pimephales promelas)
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NOEC chronic crustacea	0.011 (21d) (Daphnia magna)
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### 12.2. Persistence and degradability

#### cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

Biodegradation	Not biodegradable
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### 12.3. Bioaccumulative potential

#### cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

BCF fish 1	286 (Oncorhynchus mykiss)
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Log Pow	3.2 (24-25°C)
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### 12.4. Mobility in soil

#### cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

Log Koc	3.13
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Ecology - soil	Product adsorbs onto the soil.
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### 12.5. Results of PBT and vPvB assessment

#### Ranman Top

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

Additional information : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : waste instructions.

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

Product/Packaging disposal recommendations : Incinerate at a licensed installation. Dispose of in accordance with relevant local regulations.

## SECTION 14: Transport information

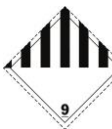

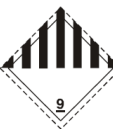


In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082

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14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)	Environmentally hazardous substance, liquid, n.o.s. (Cyazofamid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Cyazofamid), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 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				

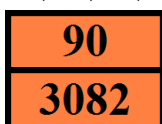
No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Special provisions (ADR) : 274, 335, 375, 601

Orange plates :



EAC code : •3Z

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

Classification code (ADN) : M6

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

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.

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### 15.1.2. National regulations

National regulation

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), 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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic 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.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Eye Irrit. 2	H319	On basis of test data
Aquatic Chronic 1	H410	Expert judgment

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*