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Material Safety Data Sheet

Product: Croisor® 100

1. Identification of the Substance and of the Company/Undertaking

1.1 Product Identifier

Product Name: CROISOR® 100

1.2 Relevant identified uses of the substance and uses advised against

1.2.1 Relevant identified uses:

Product for use as a plant hybridisation agent

1.2.2 Uses advised against

No specific uses advised against.

1.3 Details of the supplier of the SDS

Company ASUR Plant Breeding S.A.S

Address: 163 avenue de Flandre F60190 ESTREES-SAINT-DENIS

Email address technology@asur-plantbreeding.com

Telephone/fax number Tel: +33 (0)344 91 48 40 Fax: +33(0) 344 91 48 48

1.4 Emergency telephone number

+33 (0)1 45 42 59 59 (INRS/ORFILA – <http://www.centres-antipoison.net>)
+33 (0)3 83 32 36 36 (www.centres-antipoison.net) (Available 24h 7 days/week)

2. Hazards Identification

2.1 Classification of the substance

2.1.1 Classification according to Regulation (EC) 1272/2008 [CLP]

Carc. Category 2: H351

2.1.2 Classification according to Directive 67/548/EEC

Xn: R40


R52/53

2.2 Label Elements

2.2.1 According to according to Regulation (EC) 1272/2008 [CLP]



Pictograms

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Signal Word: Warning

Hazard Statements:

H351 Suspected of causing cancer

H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

P201 Obtain special instructions before use

P281 Use personal protective equipment as required

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

P501 Dispose of container in accordance with local / national regulations

Other label statements:

EUH 401: To avoid risks to human health and the environment, comply with instructions for use

SP1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads)

2.3 Other hazards

This product does not meet the criteria for PBT or vPvB

3. Composition/information on ingredients

Hazardous ingredients

CAS Number	Name	% (w/w)	EC Number	Classification according to 67/548/EEC	Classification according (EC) 1272/2008
130561-48-7	Sintofen	10	-	Xn R40 N R51/53	Carc. Cat 2 H351, Aquatic Chronic 2 H411
110-97-4	Diisopropanolamin salt	5-10	203-820-9	Xi R36	Eye Irrit. 2 H319
5949-29-1	Citric acid monohydrate	0-5	-	Xi R36	Eye Irrit. 2 H319

4. First Aid Measures

4.1 Description of First Aid Measures


As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person. Do not induce vomiting.

Following inhalation: If a large quantity is inhaled, move the patient into the fresh air and keep them warm and still. If breathing is irregular or has stopped, effect mouth to mouth resuscitation and call a doctor. Do not give the patient anything orally.

Following eye contact: Wash thoroughly with fresh water and clean for at least 15 minutes keeping the eyelids apart. If redness, pain or visual impairment occur then take patient to an ophthalmologist.

Following skin contact: Immediately remove contaminated clothing and wash skin with soap and plenty of water. DO NOT use solvents or thinners. If the contaminated area is widespread, and or there is damage to the skin, consult a physician. Launder clothing before reuse.

Following ingestion: In the case of small amounts, (not more than 1 mouthful) rinse the mouth with water and consult a doctor.
In case of accidental ingestion, call a physician or take the patient to hospital. Show the label.

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

Not known. Exposure should be treated symptomatically.

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

Not known. Exposure should be treated symptomatically.

5. Fire fighting measures

5.1 Suitable extinguishing media:

Use extinguishing media appropriate to the situation of the fire and its surrounding area. Foam, carbon dioxide, dry powder, water mist and fine droplets are all suitable extinguishing media.

5.2 Special hazards arising from the substance:

On burning, this material may generate toxic gases such as oxides of carbon and nitrogen.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus and a chemical protective suit. Do not allow extinguishing water to reach ground water or sewage system. Fight fire from a distance and stay upwind.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Restrict access to the area as appropriate until clean up operations are complete. Use the personal protective equipment recommended in Section 8 (Exposure controls) Avoid contact with skin and eyes.

6.2 Environmental precautions:

Contain and control the product in drums for waste disposal. Use drums to dispose of waste in accordance with applicable regulations. Prevent material from entering drains or waterways. If drains, streams, soil or sewers become contaminated then notify local authority.

6.3 Methods and materials for containment and cleaning up:

Clean with detergent if possible. Avoid the use of solvents.

6.4 Reference to other sections

Refer to sections 8 and 13 for guidance on personal protective equipment and disposal considerations.

7. Handling and Storage


7.1 Precautions for safe handling

7.1.1 Protective measures

Ensure that the area has adequate ventilation. Standard occupational safety procedures should be followed.

Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

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Prevent access by unauthorised personnel.

7.1.2 Advice on general occupational hygiene

Use of the personal protective equipment referred to in Section 8 is required
 Observe precautions stated on the label and industrial safety regulations.
 Smoking, eating and drinking are prohibited in premises where this preparation is used. Never open the packages under pressure.

7.2 Conditions for safe storage including any incompatibilities:

Store in the closed original container, in a dry, cool and well-ventilated place.
 Keep away from all sources of ignition, do not smoke.

7.3 Specific End use

Product is for use as a plant hybridisation agent.

8. Exposure controls/ personal protection

8.1 Control Parameters

The Acceptable Operator Exposure Level for the active substance sintofen has been finalised as part of the review program of Directive 91/414/EEC and is established as: AOEL = 0.165 mg/kg bw/day

8.2 Exposure Controls

8.2.1 Appropriate engineering controls:

Ensure adequate ventilation. If possible, use an extractor fan.

8.2.2 Personal protection:

Ensure personal protective equipment used meets the requirements of Directive 89/686/EEC

Ensure sufficient ventilation when opening the product container or working with the product.
 If surrounding ventilation is insufficient then breathing apparatus should be worn.

Wear safety glasses


Protective creams may be used for exposed skin. These should not be applied after contact with the product. It is recommended that nitrile rubber gloves are worn

8.2.3 Environmental exposure controls.

Use the product in accordance with label instructions. Avoid unnecessary release to drains and waterways.

9. Physical and Chemical Properties

Property	Value
Appearance	Amber liquid
Odour	The product has a slight indefinite odour
Odour threshold	Data not available
pH	8.5
Melting point/Freezing point	Data not available
Boiling point	99.5°C
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Not applicable
Upper lower flammability/explosive limits	Not applicable
Vapour pressure	Data not available
Vapour density	Data not available
Relative density	1.055 g/mL at 20°C

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Solubility in water	Product is a water based solution
Solubility in organic solvents	Not applicable
Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	440°C
Decomposition temperature	Not applicable
Viscosity	2.59 mm ² /s at 20.1°C.
Explosive properties	Not explosive
Oxidising properties	Not oxidising

10. Stability and Reactivity

10.1 Reactivity

Stable under normal conditions

10.2 Chemical Stability

Stable (No decomposition) under normal conditions

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No conditions to be specifically mentioned

10.5 Incompatible materials


Strong oxidisers, cationic surfactant, acids, halogens

10.6 Hazardous decomposition products

If on fire, carbon and nitrogen oxides may be generated.

11. Toxicological Information

Toxicological Endpoint	Value
Acute Oral Toxicity	LD50 > 2000 mg/kg
Acute Dermal Toxicity	LD50 > 2000 mg/kg
Acute Inhalation toxicity	LC50 > 7.34 mg/L (active ingredient as di-isopropanolamine salt)
Skin irritation	Not irritating to skin
Eye irritation	Not irritating to eyes
Skin sensitisation	Negative
Germ cell mutagenicity	None of the co-formulants are considered to be genotoxic
Carcinogenicity	Sintofen is classified as a Category 2 Carcinogen under the criteria of Regulation (EC) 1272/2008
Reproductive toxicity	None of the co-formulants are considered to have reproductive effects.
STOT Single exposure	No effects reported
STOT Repeated exposure	No effects reported
Aspiration Hazard	Not applicable

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12. Ecotoxicological Information

12.1 Toxicity

Species	Timescale	Endpoint	Value
Bobwhite Quail	Single dose	LD ₅₀	> 2000 mg a.s./kg b.w. (Sintofen)
Mallard	Single dose	LD ₅₀	> 2000 mg a.s./kg b.w. (Sintofen)
<i>Oncorhynchus mykiss</i>	96 hour	LD ₅₀	> 100 mg/L (Croisor 100)
<i>Daphnia magna</i>	48 hour	EC ₅₀	> 100 mg/L (Croisor 100)
<i>Pseudokirchneriella subcapitata</i>	96 hour	EC ₅₀	> 100 mg/L (Croisor 100)
<i>Lemna gibba</i>	7 day	EC ₅₀	4.6 mg/L (Sintofen)
		NOEC	1.0 mg/L (Sintofen)
<i>Apis mellifera</i>	48 hours	Contact and Oral LD ₅₀	> 100 µg a.s./bee
<i>Eisenia fetida</i>	28 day	NOEWC	200 mg /kg

12.2 Persistence and degradability

This product is not biodegradable

12.3 Bioaccumulative potential

This product is considered to have low bioaccumulative potential.

12.4 Mobility in soil

Sintofen has low mobility in soil. (K_{oc} 686.5 L/kg)

12.5 Results of PBT and vPvB assessment

Croisor 100 and its co-formulants are not considered to be PBT or vPvB.

12.6 Other adverse effects

No other adverse effects reported

13. Disposal considerations

13.1 Waste treatment methods

13.1.1 Product/Packaging disposal

Empty the container completely before disposal. Keep the label on the container
Packaging should be disposed of by a certified contractor


13.1.2 Waste treatment information

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste. Do not dispose of waste into the environment

13.2 Additional information

Ensure compliance with EC, national and local regulations. Do not dispose of wastes in the local sewer or drainage system.

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14. Transport Information

Transport this product in compliance with the provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport

This product is not classified according to the criteria of the UN Recommendations on the Transport of Dangerous Goods

14.1 UN Number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard classes

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

15. Regulatory Information

15.1 Safety health and environmental regulations specific for the substance

This safety data sheet has been compiled according to the requirements of Regulation (EU) No 453-2010.

The active substance in this product (sintofen) is included on Annex I of the Plant Protection Products Regulation (EC) 1107/2009.

This product has been assessed according to the criteria of Annex III of the Regulation (EC) 1107/2009

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this product or its co-formulants.

16. Other Information

16.1 Indication of changes

This is the first version of the SDS for Croisor 100 prepared in accordance with Commission Regulation (EU) 453/2010. Changes have been made to all subsections of this document.


16.2 Abbreviations and acronyms

CAS: Chemical Abstracts Service

IUPAC: International Union of Pure and Applied Chemistry

PBT: Persistent Bioaccumulative Toxic

vPvB: Very persistent very bioaccumulative

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16.3 Key literature references and sources for data

Data to prepare this safety data sheet has been taken from documents prepared to support the registration of Croisor 100 and from the EFSA conclusion on the peer review of the pesticide risk assessment of the active substance sinterfen (EFSA Journal 2010;8(12):1931)

16.4 Classification and procedure used to derive the classification according to Regulation (EC) 1272/2008 (CLP)

The classification has been derived from test data.

16.5 Relevant R-phrases and/or H statements

H319 Causes serious eye irritation
H351 Suspected of causing cancer
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects
EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

R36 Irritating to eyes
R40 Limited evidence of a carcinogenic effect
R51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment

16.6 Training advice

This substance should only be handled and used by professionals and those trained in its use.

16.7 Further information

Since the user's working conditions are not known, the information supplied on this safety data sheet is based on our current knowledge and on national and community regulations. The product must not be used for any purposes other than those specified in section 1 without first obtaining written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.