

SAFETY DATA SHEET 78

CRYSTAL MOON

1 IDENTIFICATION OF THE MIXTURE AND THE COMPANY

1.1 Product identifier

Product name CRYSTAL MOON

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

Description/Application DECORATIVE SYNTETIC COATING

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency telephone number

For urgent inquiries refer to SANITARY EMERGENCY

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

The product is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP).
The product, containing dangerous substances in concentrations that must be declared in section 3, requires a safety data sheet complies with the provisions of Regulation (EC) n. 1907/2006 and subsequent amendments.

Hazard classification and indication:
Not classified as hazardous.

2.2 Label elements

Danger labeling: -

Warnings: -

Hazard indication:

EUH208 Contains:
5-cloro-2-metil-2H-isotiazol-3-one e 2-metil-2H-isotiazol-3-one (mix3:1)

It may cause an allergic skin reaction.

Safety advice:

-

2.3 Other dangers

Based on available data, the product does not contain any PBT or vPvB substances as more than 0,1%

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3 COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Substance**

No relevant information.

3.2 Miscele

It contains:

Identification	Conc. %	Classification 67/548/CEE. Classification 1272/2008 (CLP).
<u>Mica</u>		
CAS. 12001-26-2	19 - 24	Substance with a community exposure limit in the workplace
CE. -		
INDEX. -		
<u>Titanium Dioxide</u>		
CAS. 13463-67-7	5 - 7	Substance with a community exposure limit in the workplace
CE. 236-675-5		
INDEX. -		

4 FIRST AID MEASURES**4.1 Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention.

Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Follow doctor's instructions.

5 FIREFIGHTING MEASURES**5.1 Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be conventional: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

Nothing in particular.

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3 Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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6 ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation.

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

These directions are valid both for the workers to work which for emergency interventions.

6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and material for containment and cleaning up

Draw product spilled in suitable container. Assess the compatibility of the container to be used with the product, verifying section 10. Absorb the remaining inert absorbent material.

Deposit spillage in containers for future use.

Ensure adequate ventilation of the place affected by the loss.

Verify the compatibility of containers' material in section 7.

The disposal of contaminated material must be made in accordance with section 13.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7 HANDLING AND STORAGE**7.1 Precautions for safe handling**

Ensure proper grounding system for the equipment and personnel.

Avoid contact with eyes and skin and exposure to concentrations of dust holes.

Avoid the inhalation of dust and vapour.

Do not eat, nor drink, nor smoke while handling it. Avoid dispersal into the environment.

7.2 Conditions for safe storage, including any incompatibilities

Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3 Specific end use(s)

Information not available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

EU	OEL EU	D.c. 9 of April 2008, n.81
	TLV-ACGIH	ACGIH 2014

MICA

Threshold limit value					
Type	State	TWA/8h mg/m ³	ppm	STEL/15min mg/m ³	ppm
TLV		3			

TITANIUM DIOXIDE

Threshold limit value					
Type	State	TWA/8h mg/m ³	ppm	STEL/15min mg/m ³	ppm
TLV-ACGIH		10			
Reference value for the fresh water				0,127	mg/l
Reference value for the seawater				1	mg/l
Reference value for the sediment in fresh water				1000	mg/kg
Reference value for the sediment in seawater				100	mg/kg
Reference value for the microorganisms STP				100	mg/l
Reference value for the terrestrial compartment				100	mg/kg

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Exposure routes	Acute local	Effect on consumers Acute system	Cronycs local	Cronycs system
Exposure routes	Acute local	Effects on workers Acute system	Cronycs local	Cronycs system
Inhalation			VND	10 mg/m ³

Legend:

(C) = CEILING ; INALAB = inhalable fraction ; RESPIR = Respirable fraction ; TORAC = Thoracic fraction.

VND = identified hazard but no DNEL/PNEC available; NEA = no expected exposure; NPI = no hazard identif.

8.2 Exposure controls

As the use if adequate technical equipment must always take priority over personal protection equipment must always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration. For the selection of personal protective equipment, if necessary, request advice from your chemical substance suppliers.

The personal protective equipment must bear the CE marking attesting to their compliance with applicable regulations. Provide emergency shower with a pan for face and eyes.

HAND PROTECTION

Protect your hands with work gloves, category III (ref. standard EN 374). Final selection of the material of the gloves must be considered: compatibility, degradation, breakage times and permeation. In the case of preparartions the resistance of protective gloves to chemicals should be checked before use, as it expected.

The gloves' limit depends on the duration and method of use.

SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional use category II (ref. Directive 89/686/EEC and law EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

We reccomend wearing hood visor or protective visor together with airtight goggles (ref. law EN 166).

RESPIRATORY PROTECTION

In case of exceeding the threshold value (eg. TLV-TWA) of the substance or one or more of the substances contained on the product, you should wear a mask with filter Type A, whose class (1, 2 or 3) must be chosen according to the limit concentration of use (ref. standard EN 14387). In the case there will be be gas or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.) should be provided for combined type filters. The use of respiratory protective equipment is necessary in case the technical measures are not sufficient to limit the exposure of the worker to the threshold values considered. The protection provided by masks is in any case limited. In case that the substance in question is odorless or its olfactory threshold is higher than the related TLV-TWA, and in case of emergency, it is important to wear a compressed air breathing apparatus open circuit (ref Standard EN 137) or a respirator in socket outdoor air (ref. standard EN 138). For the correct choice of respiratory protection device, refer to EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Silver/Gold
Odour	Characteristic
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 60 °C
Evaporation rate	Not available

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Flammability (solid, gas)	Non-flammable
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not explosive
Upper explosive limit	Not explosive
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	Miscible in water
Partition coefficient:: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not explosive
Oxidising properties	Not available

9.2 Other information

Not available

10 STABILITY AND REACTIVITY**10.1 Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical stability

The product is stable in normal conditions of use and storage.

10.3 Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4 Conditions to avoid

None in particular. However, follow the usual precautions against chemicals.

10.5 Incompatible materials

Information not available

10.6 Hazardous decomposition products

By thermal composition or in case of fire, it can be released gas and vapor potentially dangerous to health.

11 TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

In the absence of experimental toxicological data on the product itself, the possible health hazards of the product were evaluated based on the properties of the substances contained, according to the criteria laid down by the relevant regulations for the classification.

Therefore, consider the concentration of each hazardous substances possibly mentioned in sect. 3, to assess toxicological effects resulting from exposure to the product.

The product contains sensitizing substances and therefore may cause an allergic reaction.

TITANIUM BIOXIDE

LD50 (Oral)> 5000 mg/kg Rats

LD50 (Inhalation)> 6,82 mg/l Rats

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12 ECOLOGICAL INFORMATION

Use this product according to good working practices. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1 Toxicity

TITANIUM BIOXIDE

LC50 - Fish.

> 10000 mg/l/96h American cadavedano

EC50 - Shellfish

> 1000 mg/l/48h Bug water flea

EC50 - Algae / Water plants

61 mg/l/72h Clorifcee Algae

12.2 Persistence and degradability

Information not available

12.3 Bioaccumulative potential

Information not available

12.4 Mobility in soil

Information not available

12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%

12.6 Other adverse effects

Information not available

13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Reuse, when possible. Neat product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14 TRANSPORT INFORMATION**14.1 ONU number**

Not applicable.

14.2 ONU shipping name

Not applicable.

14.3 Hazard classes connected to shipping

Not applicable.

14.4 Packaging group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for users

Not applicable.

14.7 Shipping of bulk according to MARPOL 73/78 annex and the IBC code

No relevant information.

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15 REGULATORY INFORMATION

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

Seveso Category None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
None

Substances in Candidate List (Art. 59 REACH): None

Substances subject to authorisation (Annex XIV REACH): None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls

Workers exposed to this chemical agent to health must undergo health checks according to the provisions of art. 41 of Legislative Decree n. 81 of April 9th 2008, unless the risk for the safety and health of the worker has been assessed irrelevant, according to art. 224 paragraph 2.

15.2 Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

16 OTHER INFORMATIONS

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
9. The Merck Index. - 10th Edition
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique (toxicological sheet)
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
15. ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version.

Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations.

The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

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