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Safety data sheet according to 1907/2006/EC, Article 31

version: 1

Printing date 28.12.2022	version: 1	Revision: 28.12.2022
-	on of the substance/mixture and of the	oompony/underteking
1.1 Product identifier:	on of the substance/mixture and of the	company/undertaking
Trade name: Monocrota	aline N-oxide	
Article number: 82629 CAS Number: 35337-98-5 1.2 Relevant identified us No further relevant inform Application of the substa	ses of the substance or mixture and uses a nation available. Ince / the preparation: Reference substanc er of the safety data sheet: KG euth 327 456	-
Further information obtai	inable from: PLV_MSDS@phytolab.com e number: Germany/9163/88-500	
SECTION 2: Hazards id 2.1 Classification of the s Classification according t	substance or mixture: to Regulation (EC) No 1272/2008:	
Acute Tox. 3 H301 Toxic	; if swallowed.	
GHS08 health h	nazard	
Carc. 2 H351 Susp	ected of causing cancer.	
2.2 Label elements: Labelling according to Re	ected of causing cancer. egulation (EC) No 1272/2008: ed and labelled according to the CLP regu	lation.
2.2 Label elements: Labelling according to Re The substance is classifi	egulation (EC) No 1272/2008:	lation.
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(Contd. of page 1) Hazard statements: H301 Toxic if swallowed. H351 Suspected of causing cancer. Precautionary statements P201 Obtain special instructions before use. P264 Wash hands thoroughly after handling. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P330 Rinse mouth. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. 2.3 Other hazards: Restricted to professional users. The toxicological properties of this compound have not been fully evaluated. Results of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances
Synonyms:
(13-α,14-α)-14,19-Dihydro-12,13-dihydroxy-20-norcrotalanan-11,15-dione-4-oxide
Molecular formula: C16H23NO7
CAS No. Description
35337-98-5 Monocrotaline N-oxide
Identification number(s) not applicable
Additional information: chemical product

SECTION 4: First aid measures

4.1 Description of first aid measures:
General information:
Induce vomiting only with medical help.
Immediately remove any clothing soiled by the product.
After inhalation: Supply fresh air and to be sure call for a doctor.
After skin contact:
Immediately rinse with water.
If skin irritation continues, consult a doctor.
After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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After swallowing:

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Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 Advice for firefighters:

Protective equipment:

Mount respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Avoid formation of dust.
Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up: Pick up mechanically.
Dispose contaminated material as waste according to item 13.
6.4 Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:
Handling corresponding to laboratory safety guidelines.
Ensure good ventilation/exhaustion at the workplace.
Keep receptacles tightly sealed.
Open and handle receptacle with care.
Prevent formation of dust.

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(Contd. of page 3) Information about fire - and explosion protection: No special measures required. 7.2 Conditions for safe storage, including any incompatibilities: Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in the original receptacle. Information about storage in one common storage facility: Store away from foodstuffs. Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Store in the dark. Recommended storage temperature: 2-8 °C Storage class: 6.1D 7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters: Ingredients with limit values that require monitoring at the workplace: Not required. Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls: Appropriate engineering controls: No further data; see item 7. Individual protection measures, such as personal protective equipment: General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Do not eat, drink, smoke or sniff while working. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. Respiratory protection: Required in case of dust formation. Use suitable respiratory protective device in case of insufficient ventilation. Hand protection: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 5) FIL



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Material of gloves:



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Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection:



Tightly sealed goggles

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties: General Information: Physical state: Solid Colour: According to Certificate of Analysis Odour: No data available. Odour threshold: Not determined. Molecular Weight Melting point/freezing point: Undetermined. Boiling point or initial boiling point and boiling range: Undetermined. Flammability: Product is not flammable. Dust explosion class: Lower and upper explosion limit: Lower: Not determined. Upper: Not determined. Flash point: Not applicable. (Minimum) Ignition temperature: Not determined. Decomposition temperature: Not determined. Powder volume resistivity: pH: Not applicable. **Dissociation constant:** Viscosity: Kinematic viscosity: Not applicable. (Contd. on page 6)

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Colubility in other columnts.	(Contd. of page 5)
Solubility in other solvents: Dynamic:	Not applicable.
Solubility:	
water:	No data available.
Partition coefficient n-octanol/water (log	
value):	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density:	
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	Not applicable.
Particle characteristics:	See item 3.
9.2 Other information:	
Appearance:	
Form:	Solid
Important information on protection of health	1
and environment, and on safety.	N <i>i i i i</i>
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Molecular weight	341.36 g/mol Not determined.
Oxidising properties: Evaporation rate:	Not applicable.
•	
Information with regard to physical hazard classes:	1
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides Corrosive to metals	Void
	Void (Contd. on page 7)
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Desensitised explosives

Void

SECTION 10: Stability and reactivity

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided:

Stable under constant-temperature (see 7.)

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: Strong oxidising agents.

10.6 Hazardous decomposition products: no data available

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity: Toxic if swallowed.

LD/LC50 values relevant for classification:

Oral LD50 100 mg/kg (ATE)

LDLo 25 mg/kg (rat)

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.

Additional toxicological information:

Hepatotoxic

The product should be handled with the care usual when dealing with chemicals.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):

Carc. 2

11.2 Information on other hazards

Endocrine disrupting properties: Substance is not listed.

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SECTION 12: Ecological information 12.1 Toxicity: Aquatic toxicity: Quantitative data concerning the ecological properties of the product are not available. 12.2 Persistence and degradability: No further relevant information available. 12.3 Bioaccumulative potential: No further relevant information available. 12.4 Mobility in soil: No further relevant information available. 12.5 Results of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable. 12.6 Endocrine disrupting properties: The product does not contain substances with endocrine disrupting properties. 12.7 Other adverse effects: Remark: Do not release into sewage, water or soil. Additional ecological information: General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. SECTION 13: Disposal considerations 13.1 Waste treatment methods: Recommendation: Dispose product and packaging in accordance with regional environmental laws.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

UN1544
UN1544 ALKALOIDS, SOLID, N.O.S.
(Monocrotaline N-oxide)
1544 ALKALOIDE, FEST, N.A.G.
(Monocrotaline N-oxide)
ALKALOIDS, SOLID, N.O.S. (Monocrotaline N-
oxide)
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14.3 Transport hazard class(es):	(Contd. of page 8)
ADR, IMDG, IATA	
6	
Class	6.1 Toxic substances.
Label	6.1
14.4 Packing group: ADR, IMDG, IATA	111
14.5 Environmental hazards:	111
Marine pollutant:	No
14.6 Special precautions for user:	Warning: Toxic substances.
Hazard identification number (Kemler code)	
EMS Number:	F-A,S-A
Stowage Category	A
14.7 Maritime transport in bulk according to	Natanglashia
IMO instruments:	Not applicable.
Transport/Additional information:	
ADR	E ka
Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1
	Maximum net quantity per inner packaging: 30
	g
	Maximum net quantity per outer packaging:
	1000 g
Transport category	2
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5 kg Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30
	g
	9 Maximum net quantity per outer packaging:
	1000 g
UN "Model Regulation":	UN 1544 ALKALOIDS, SOLID, N.O.S.
	(MONOCROTALINE N-OXIDE), 6.1, III
	EU

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mixture:	information
Directive 2012/18/EU: Named dangerous substar Seveso category H2 ACU	nces - ANNEX I: Substance is not listed. TE TOXIC
Qualifying quantity (tonnes Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t) for the application of upper-tier requirements 200 t on the restriction of the use of certain hazardous substances in
REGULATION (EU) 2019/ Annex I - RESTRICTED E licensing under Article 5(3) Substance is not listed.	XPLOSIVES PRECURSORS (Upper limit value for the purpose of
National regulations:	EXPLOSIVES PRECORSORS: Substance is not listed.
Information about limitation When using chemicals, lo protection, protection of mi	egal regulations have to be regarded (chemical law, maternity
	ssment: A Chemical Safety Assessment has not been carried out.
guarantee for any specific	mation on our present knowledge. However, this shall not constitute a product features and shall not establish a legally valid contractual
This information is based guarantee for any specific relationship. Abbreviations and acronyn RID: Règlement international (Regulations Concerning the Inte IATA-DGR: Dangerous Goods R	on our present knowledge. However, this shall not constitute a product features and shall not establish a legally valid contractual ns: concernant le transport des marchandises dangereuses par chemin de fer ernational Transport of Dangerous Goods by Rail) egulations by the "International Air Transport Association" (IATA)
This information is based guarantee for any specific relationship. Abbreviations and acronyn RID: Règlement international (Regulations Concerning the Inte IATA-DGR: Dangerous Goods R ICAO: International Civil Aviation ICAO-TI: Technical Instructions I ADR: Accord relatif au transport Concerning the International Car IMDG: International Maritime Co IATA: International Air Transport	on our present knowledge. However, this shall not constitute a product features and shall not establish a legally valid contractual ns: concernant le transport des marchandises dangereuses par chemin de fer ernational Transport of Dangerous Goods by Rail) egulations by the "International Air Transport Association" (IATA) organisation by the "International Civil Aviation Organisation" (ICAO) t international des marchandises dangereuses par route (European Agreement triage of Dangerous Goods by Road) de for Dangerous Goods Association
 This information is based guarantee for any specific relationship. Abbreviations and acronyn RID: Règlement international (Regulations Concerning the International Civil Aviation ICAO-TI: Technical Instructions I ADR: Accord relatif au transport Concerning the International Car IMDG: International Maritime Co IATA: International Air Transport GHS: Globally Harmonised Syste CAS: Chemical Abstracts Servic LC50: Lethal concentration, 50 p LD50: Lethal dose, 50 percent 	on our present knowledge. However, this shall not constitute a product features and shall not establish a legally valid contractual ns: concernant le transport des marchandises dangereuses par chemin de fer ernational Transport of Dangerous Goods by Rail) egulations by the "International Air Transport Association" (IATA) organisation by the "International Civil Aviation Organisation" (ICAO) i international des marchandises dangereuses par route (European Agreement triage of Dangerous Goods by Road) de for Dangerous Goods Association em of Classification and Labelling of Chemicals e (division of the American Chemical Society) percent
 This information is based guarantee for any specific relationship. Abbreviations and acronyn RID: Règlement international (Regulations Concerning the International Civil Aviation ICAO-TI: Technical Instructions I ADR: Accord relatif au transport Concerning the International Air Transport GHS: Globally Harmonised Syste CAS: Chemical Abstracts Servic LC50: Lethal concentration, 50 p LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative vPvB: very Persistent and very B 	on our present knowledge. However, this shall not constitute a product features and shall not establish a legally valid contractual ns: concernant le transport des marchandises dangereuses par chemin de fer ernational Transport of Dangerous Goods by Rail) egulations by the "International Air Transport Association" (IATA) o Organisation by the "International Civil Aviation Organisation" (ICAO) t international des marchandises dangereuses par route (European Agreement riage of Dangerous Goods by Road) de for Dangerous Goods Association em of Classification and Labelling of Chemicals e (division of the American Chemical Society) hercent e and Toxic
 This information is based guarantee for any specific relationship. Abbreviations and acronyn RID: Règlement international (Regulations Concerning the International Civil Aviation ICAO: International Civil Aviation ICAO: International Civil Aviation ICAO-TI: Technical Instructions I ADR: Accord relatif au transport Concerning the International Car IMDG: International Maritime Co IATA: International Air Transport GHS: Globally Harmonised Syste CAS: Chemical Abstracts Servic LC50: Lethal concentration, 50 p LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative 	on our present knowledge. However, this shall not constitute a product features and shall not establish a legally valid contractual ns: concernant le transport des marchandises dangereuses par chemin de fer ernational Transport of Dangerous Goods by Rail) egulations by the "International Air Transport Association" (IATA) organisation by the "International Civil Aviation Organisation" (ICAO) t international des marchandises dangereuses par route (European Agreement riage of Dangerous Goods by Road) de for Dangerous Goods Association em of Classification and Labelling of Chemicals e (division of the American Chemical Society) hercent e and Toxic tioaccumulative tegory 3