according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

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

1.1 Product identifier

Trade name : Crotodur® 31-0-0

Registration number : 01-2119983389-17-0000

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

Use of the : Fertilizer

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : COMPO EXPERT GmbH

Krögerweg 10 D-48155 Münster

Telephone : +49 (0) 251 29 79 81 – 000

Telefax : +49 (0) 251 29 79 81 - 111

E-mail address of person

responsible for the SDS

: info@compo-expert.com

1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h

Telephone: +49 (0) 6132 - 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : Not a hazardous substance or mixture

according to Regulation (EC) No.

1272/2008.

Supplemental Hazard Statements

oplemental Hazard : EUH210

EUH210 Safety data sheet available on request.

Further information : Directive 76/116/EEC on the approximation of the laws of

the Member States relating to fertilisers.

The authority permits and storage regulations must be

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

observed.

2.3 Other hazards

May form explosible dust-air mixture if dispersed.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Fertilizer

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		
6-methyl-2-oxoperhydropyrimidin-	1129-42-6		<= 100
4-ylurea			
	214-447-6		
	01-2119983389-17-		
	0000		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : If difficulties occur after dust has been inhaled, remove to

fresh air and seek medical attention.

On inhalation of decomposition products:

In case of lung irritation, first treatment with dexametason

aerosol (spray).

Keep patient calm, remove to fresh air, seek medical

attention.

In case of skin contact : Wash thoroughly with soap and water.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 **Revision Date:** Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water

Unsuitable extinguishing

media

Foam

Dry chemical

Carbon dioxide (CO2)

High volume water jet Avoid dust formation.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Can decompose at above 100 °C. Thermal decomposition

products:

carbon monoxide Carbon dioxide (CO2)

Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide,

ammonia

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

Keep away from sources of ignition - No smoking.

Ventilate the area.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

6.4 Reference to other sections

Information regarding safe handling see in section 7, For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against

fire and explosion

: Finely dispersed particles form explosive mixtures with air. Avoid formation of aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from combustible materials. Take measures to prevent the build up of electrostatic charge. Use only explosion-proof equipment.

Hygiene measures : At the end of the shift the skin should be cleaned and skin-

care agents applied.

Dust explosion class : Kst-value >0 up to 200 bar m s-1

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

 When stored loose do not mix with other fertilizers. Store well away from other substances. Keep away from direct sunlight. Protect against heat. Protect from contamination. Protect against humidity (product is hygroscopic and tends to cake or disintegrate)

distritegrate)

Storage class (TRGS 510) : 13, Non Combustible Solids

7.3 Specific end use(s)

Specific use(s) : Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

none

8.2 Exposure controls

Personal protective equipment

Respiratory protection : respiratory protection only if aerosol or dust is formed.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : granular

Colour : various

yellowish

Odour : very faint

pH : ca. 6 - 8, Concentration: 100 g/l (20 °C)

Melting point/range : 174 °C

Method: OECD Test Guideline 102

Boiling point/boiling range : 219 °C

Method: OECD Test Guideline 103

Flash point : Not relevant

Vapour pressure : <= 0.35 Pa (20 °C)

Method: OECD Test Guideline 104

Relative density : 1,41 (20 °C)

Method: Density of liquids and solids.

Density : 1,45 g/cm³

Bulk density : ca. 950 kg/m³

Solubility(ies)

Water solubility : 5,07 g/l soluble (20 °C)

pH: 8,57 - 8,69

Method: OECD Test Guideline 105

Solubility in other solvents : 0,23 g/l

(20 °C)

Solvent: octan-1-ol

Method: OECD Test Guideline 105

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

Partition coefficient: n-

octanol/water

: Pow: 0,045 (20 °C)

log Pow: -1,34 (20 °C)

Method: OECD Test Guideline 107

Decomposition temperature : ca. 100 °C

To avoid thermal decomposition, do not overheat.

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : May form explosible dust-air mixture if dispersed. Minimum

ignition energy Wmin 152 mJ < Wmin < 260mJ (@ humidity

0.9 %; @ median particle size distribution 22 μm)

Oxidizing properties : Not considered an oxidizing substance

9.2 Other information

Dust explosion class : Kst-value >0 up to 200 bar m s-1

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : Evolution of ammonia under influence of alkalies.

May form explosible dust-air mixture if dispersed.

10.4 Conditions to avoid

Conditions to avoid : Exposure to air or moisture over prolonged periods.

May form explosible dust-air mixture if dispersed.

Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition : Carbon dioxide (CO2)

products Carbon monoxide

6 / 12

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg

Method: OECD Guideline 423

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Method: OECD Test Guideline 402

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

Skin corrosion/irritation

Product:

Species: EPISKIN Human Skin Model Test

Exposure time: 0,05 - 1 h

Method: OECD Guideline for the Testing of Chemicals. No. 431: In Vitro Skin Corrosion: Human

Skin Model Test Result: non-irritant

Serious eye damage/eye irritation

Product:

Species: other

Method: OECD Guideline for Testing of Chemicals, Nr. 437 "Bovine Corneal Opacity and

Permeability Test Method for Identifying Ocular Corrosives and Severe Irritants"

Result: non-irritant

Respiratory or skin sensitisation

Product:

Test Type: Mouse Local Lymph Node Assay (LLNA)

Species: Mouse

Method: OECD Guideline 429

Result: Does not cause skin sensitisation.

germ cell mutagenicity

Product:

Genotoxicity in vitro : Test Type: Mouse lymphoma assay

Method: Genetic Toxicology: In vitro Mammalian Cell Gene

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

Mutation Tests

Result: Mutagenicity tests revealed no genotoxic potential.

: Test Type: Salmonella typhimurium reverse mutation assay Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay)

Result: Mutagenicity tests revealed no genotoxic potential.

Genotoxicity in vivo : Species: Mouse (male)

Exposure time: 24 h

Method: Genetic Toxicology: Micronucleus Test.

Remarks:

Carcinogenicity

Product:

Carcinogenicity -

Assessment

: Not classifiable as a human carcinogen.

Reproductive toxicity

Product:

Effects on fertility : Species: Rat

Sex: male and female Application Route: Oral NOAEL: > 1.000 mg/kg,

Method: OECD Guideline 422

Remarks: Information given is based on data obtained from

similar substances.

Repeated dose toxicity

Product:

Species: Rat, male and female NOAEL: >= 1.200 mg/kg

Remarks: The product was not tested. The statement was derived from products of similar

structure and composition.

Aspiration hazard

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

11.2 Information on other hazards

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

Endocrine disrupting properties

No data available

Further information

Product:

Remarks: The product was not tested. The statement was derived from products of similar

structure and composition.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Scenedesmus subspicatus): > 500 mg/l

Exposure time: 96 h Method: DIN 38412

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

Toxicity to bacteria : EC50 : ca. > 100 mg/l

Exposure time: 4 h

Test Type: activated sludge

Method: Method for assessing the inhibition of nitrification of activated sludge microorganisms by chemicals and waste

waters.

Remarks: Inhibition of degradation activity in activated sludge

is not to be anticipated during correct introduction of low

concentrations.

12.2 Persistence and degradability

Product:

Biodegradability : Result: Biodegradable.

Biodegradation: 85,6 % Exposure time: 28 d Method: Production of CO2

GLP: yes

Remarks: The 10 day time window criterion is not fulfilled.

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Because of the n-octanol/water distribution

coefficient (log Pow) accumulation in organisms is not to be

expected.

12.4 Mobility in soil

Product:

Mobility : Remarks: Over time, the substance will preferentially

distribute into the compartment water.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : Remarks: Not applicable

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological

information

: There is a high probability that the product is acute not

harmful to aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of as hazardous waste in compliance with local and

national regulations.

Contaminated packaging : Contaminated packaging should be emptied as far as

possible; then it can be passed on for recycling after being

thoroughly cleaned.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Segregation group : : (-)

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not relevant

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water contaminating class (Germany)

Water contaminating class : WGK 1 slightly water endangering

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on

according to Regulation (EC) No. 1907/2006

Crotodur® 31-0-0



Version: 2.6 Revision Date:
Date of last issue: 06.04.2023 04.08.2023

Date of first issue: 20.06.2016

Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS -Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN