Material Safety Data Sheet

Completed 22-06-2020
SDS version 1.0

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

1.1. Product Identifier
Trade Name: Chalk Marker
Product- no.: -

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended uses:
Colors.

Uses advised against:
This product must not be used for purposes other than those recommended without first seeking the advice of the supplier.

1.3. Details of the supplier of the safety data sheet
Company and address:
Creotime.com
Rasmus Færchs Vej 23
7500 Holstebro
Denmark
Tlf.: +45 96 13 30 10

Contact person and E-mail:
info@creotime.com

The Safety data sheet is completed and validated by:
Mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: HG

1.4. Emergency telephone number
NHS: 111
Use your national or local emergency number - See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
CLP (1272/2008):
Aquatic Chronic 2;H412
EUH208

See full text of H-phrases in section 16.

2.2. Label elements
-

Signal word:
-

Harmful to aquatic life with long lasting effects. (H412)
Contains 3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate, 5-chloro-2-methyl-2H-isothiazol-3-one. May produce an allergic reaction. (EUH 208)

Avoid release to the environment. (P273)
If skin irritation or rash occurs: Get medical advice/attention. (P333 + P313)

2.3. Other hazards
-

Additional labelling:
-

Additional warnings
-

SECTION 3: Composition/information on ingredients

3.1./3.2. Substances/Mixtures

Substance	EU-Index no. / REACH-Reg. no.	CAS-no.	EINECS-no.	CLP-classification	Wt/Wt %	Note
2-amino-2-methylpropanol	603-070-00-6 / 01-2119475788-16-xxxx	124-68-5	204-709-8	Skin Irrit. 2;H315, Eye Irrit. 2;H319, Aquatic Chronic 2;H412	1 - < 3	-
(2-methoxymethylethoxy)propanol	- / 01-2119450011-60-xxxx	34590-94-8	252-104-2	-	0 - < 0.5	1
3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium	- / 01-2120106880-63-xxxx	73398-89-7	277-459-0	Acuatic Tox. 3;H301 + H331, Eye Dam. 1;H318, Aquatic Acute 1;H400 - M = 10, Aquatic Chronic 1;H410 - M = 1	0 - < 0.25	-
3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride	- / 01-2120107344-68-xxxx	3068-39-1	221-326-1	Acute Tox. 4;H302, Skin Sens. 1B;H317, Eye Dam. 1;H318, Acute Tox. 2;H330, Aquatic Acute 1;H400 - M = 10, Acuatic Chronic 1;H410 - M = 1	0 - < 0.25	-
5-chloro-2-methyl-2H-isothiazol-3-one	- / -	26172-55-4	247-500-7	Acute Tox. 3;H301 + H311 + H331, Skin Corr. 1B;H314, Skin Sens. 1;H317, Eye Dam. 1;H318, Aquatic Acute 1;H400 - M = 1, Aquatic Chronic 1;H410 - M = 1	0 - < 0.0015	-

1) The substance is included in the EU list of limit values for occupational exposure.

See full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
Inhalation:
Seek fresh air.
Seek medical advice in case of discomfort.

Ingestion:
Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
Seek medical advice in case of discomfort.

Skin contact:
Wash skin with soap and water.
If skin irritation or rash occurs: Get medical advice/attention.

Eye contact:
Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

Additional information:
When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed
May cause slight irritation to the skin and eyes.

4.3. Indication of any immediate medical attention and special treatment needed
No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Surrounding fire:
Extinguish with powder, foam, carbon dioxide or water mist.
Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture
Avoid inhalation of vapour and fumes – seek fresh air.

5.3. Advice for firefighters
Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
See section 8 for type of protective equipment.

6.2. Environmental precautions
Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

6.3. Methods and material for containment and cleaning up
Sweep up/collect spills for possible reuse or transfer to suitable waste containers.

6.4. Reference to other sections
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
See section 8 for information about precautions for use and personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Keep in tightly closed original packaging.
Store fireproof. Storage for flammable liquids must follow local regulations for flammable stock.

7.3. Specific end use(s)
See application section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Occupational exposure limits according to EH40/2005 Workplace exposure limits (Fourth Edition 2020):

Substance	Long-term exposure limit ppm / mg/m³	Short-term exposure limit ppm / mg/m³	Note
(2-methoxymethylethoxy)propanol	50 / 308		Sk

Sk = Can be absorbed through the skin.

DNEL/PNEC-values:
DNEL 2-amino-2-methylpropanol

	Workers	Consumers
Inhalation - Chronic Systemic	6,5 mg/m³	1,6 mg/m³
Dermal - Chronic Systemic	7,3 mg/kg bw/day	37 mg/kg bw/day
Oral - Chronic Systemic	-	0,46 mg/kg bw/day

DNEL (2-methoxymethylethoxy)propanol

	Workers	Consumers
Inhalation - Chronic Systemic	308 mg/m³	37,2 mg/m³
Dermal - Chronic Systemic	283 mg/kg bw/day	121 mg/kg bw/day
Oral - Chronic Systemic	-	36 mg/kg bw/day
Oral - Acute Systemic	-	36 mg/kg bw/day

DNEL 3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate

	Workers	Consumers
Inhalation - Chronic Systemic	1,11 mg/m³	0.196 mg/m³
Dermal - Chronic Systemic	0,315 mg/kg bw/day	0,113 mg/kg bw/day
Oral - Chronic Systemic	-	0,113 mg/kg bw/day
Oral - Acute Systemic	-	0,113 mg/kg bw/day

DNEL 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride

	Workers	Consumers
Inhalation - Chronic Systemic	0,06 mg/m³	-
Inhalation - Acute Local	0,2 mg/m³	-
Dermal - Chronic Systemic	0,02 mg/kg bw/day	-
Dermal - Acute Systemic	0,06 mg/kg bw/day	-
Dermal - Chronic Local	0,125 mg/cm²	-
Dermal - Acute Local	0,25 mg/cm²	-

PNEC 2-amino-2-methylpropanol

Fresh water	0,188 mg/L
Intermittent releases (Fresh water)	1,88 mg/L
Marine water	0,019 mg/L
Soil	0,03 mg/kg soil dw

PNEC (2-methoxymethylethoxy)propanol

Fresh water	19 mg/L
Intermittent releases (Fresh water)	190 mg/L
Marine water	1,9 mg/L
Soil	2,74 mg/kg soil dw

PNEC 3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate

Fresh water	0, 116 µg/L
Intermittent releases (Fresh water)	1,16 µg/L
Marine water	11,6 ng/L
Intermittent releases (Marine water)	0,116 µg/L
Soil	0,219 µg/kg soil dw

PNEC 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride

Soil	0.198 mg/kg soil dw

8.2. Exposure controls
There are no exposure scenarios for this product.

Appropriate engineering controls:
Wear the personal protective equipment specified below.

Personal protective equipment:

Respiratory protection:
Not required.

Hand protection:
Recommended:
Plastic or rubber gloves recommended.

Eye/face protection:
Not required.

Skin protection:
Not required.

Environmental exposure controls:
Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	
Physical state:	Viscous
Colour:	Multiple colours
Odour:	-
Odour threshold:	-
pH:	-
Melting point/ Freezing Point (°C):	-
Initial boiling point and boiling range (°C):	> 90
Flash point (°C):	> 70
Evaporation rate:	-
Flammability (solid, gas):	-
Upper / lower flammability or explosion limits (vol-%):	-
Vapour pressure:	-
Vapour density (air=1):	-
Relative density:	1,1 +/- 0,1 kg/l
Solubility(ies):	Miscible with water
Partition coefficient: n-octanol/water:	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
Viscosity:	-
Explosive properties:	-
Oxidising properties:	-

9.2. Other information

VOC (Volatile organic compounds):	2.36 %

SECTION 10: Stability and reactivity

10.1. Reactivity
No data.

10.2. Chemical stability
The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products
No special precautions regarding contact with other materials at the recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity:
Based on the existing data, the classification is not met.

Substance	Route of exposure	Species	Test	Result
2-amino-2-methylpropanol	Oral	Rat	LD50	2900 mg/kg bw
2-amino-2-methylpropanol	Dermal	Rat	LD50	> 2000 mg/kg bw
(2-methoxymethylethoxy)propanol	Oral	Rat	LD50	> 5000 mg/kg bw
(2-methoxymethylethoxy)propanol	Dermal	Rabbit	LD50	9510 mg/kg bw
3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate	Oral	Rat	LD50	> 50 - < 300 mg/kg bw
3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate	Inhalation	Rat	LC50/ 8 Hours	> 2000 mg/kg bw
3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate	Dermal	Rat	LD50	> 2000 mg/kg bw
3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride	Oral	Rat	LD50	410 mg/kg bw
3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride	Inhalation	Rat	LC50/ 8 Hours	0,05 - 0,5 mg/L air (nominal)

Skin corrosion/irritation:
May irritate the skin – may cause reddening.
Can be absorbed through the skin causing symptoms such as dizziness and headache.

Serious eye damage/irritation:
May cause eye irritation.

Respiratory or skin sensitisation:
Contains 3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate, 5-chloro-2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

Germ cell mutagenicity:
Based on the existing data, the classification is not met.

Carcinogenicity:
Based on the existing data, the classification is not met.

Reproductive toxicity:
Based on the existing data, the classification is not met.

STOT-single exposure:
Based on the existing data, the classification is not met.

STOT-repeated exposure:
Based on the existing data, the classification is not met.

Aspiration hazard:
Based on the existing data, the classification is not met.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
2-amino-2-methylpropanol	48 Hours:	Fish	LC50	190 mg/L
2-amino-2-methylpropanol	96 Hours:	Daphnia	LC50	179 mg/L
2-amino-2-methylpropanol	72 Hours:	Algae	EC50	609 mg/L
(2-methoxymethylethoxy)propanol	48 Hours:	Fish	LC50	> 1000 mg/L
(2-methoxymethylethoxy)propanol	96 Hours:	Daphnia	LC50	1919 mg/L
(2-methoxymethylethoxy)propanol	72 Hours:	Algae	EC50	> 969 mg/L
3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate	48 Hours:	Fish	LC50	0,98 mg/L
3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate	96 Hours:	Daphnia	LC50	0,23 mg/L
3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate	72 Hours:	Algae	EC50	37 µg/L
3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride	48 Hours:	Fish	LC50	6,85 mg/L
3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride	96 Hours:	Daphnia	LC50	1 mg/L
3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride	72 Hours:	Algae	EC50	0,016 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
2-amino-2-methylpropanol	Yes	OECD Guideline 301 F	28 Days: 89,3
(2-	Yes	OECD Guideline 301 F	28 Days: 96%
3,6-bis(diethylamino)-	No	OECD Guideline 301 B	28 Days: >= 11 - <= 14
3,6-bis(ethylamino)-9-	No	OECD Guideline 301 B	28 Days: >= 2 - <= 5

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow
2-amino-2-methylpropanol	No	ca. -0,63
(2-methoxymethylethoxy)propanol	No	0,004
3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate	No	1
3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride	No	1,7

12.4. Mobility in soil
Test data are not available.

12.5. Results of PBT and vPvB assessment
The product does not meet the criteria for PBT or vPvB.

12.6. Other adverse effects
Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
The product is covered by the regulations on dangerous waste.
Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC-Code	Description
20 01 27	Paint, inks, adhesives and resins containing hazardous substances

Specific labelling:
-

Contaminated packaging:
Empty packaging must be disposed of through the municipal waste collection service for hazardous waste.

SECTION 14: Transport information

The product is not covered by the rules for transport of dangerous goods by road and sea according to ADR and IMDG.

14.1 -14.4.
ADR
-
IMDG
-

14.5. Environmental hazards
-

14.6. Special precautions for user
-

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not relevant.

SECTION 15: Regulatory information

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

Sources:
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

Additional labelling:
-

Restrictions for application:
-

Demands for specific education:
-

15.2. Chemical safety assessment
None.

SECTION 16: Other information

According to EU regulation 1907/2006 (REACH)

Other information:
Sources:
EC regulation 1907/2006 (REACH), with amendments.
EC Regulation 1272/2008 (CLP), with amendments.
EC Regulation 528/2012 (BPR), with amendments.
EU regulation no. 276/2010
Directive 2000/532/EC

Full text of H-phrases as mentioned in section 2+3:

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH 208	Contains 3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthylium tetrachlorozincate, 5-chloro-2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

Classification according to Regulation (EC) Nr. 1272/2008:

Aquatic Chronic 2;H412	Calculation method
EUH208	Calculation method

Abbreviations and acronyms used in the safety data sheet:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.
CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.
CAS-Number.: Chemical Abstracts Service number.
EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).
DNEL: Derived No Effect Level.
PNEC(s): Predicted No Effect Concentration(s).
STOT: Specific Target Organ Toxicity.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
LC50: Lethal Concentration to 50 % of a test population.
EC50: The effective concentration of substance that causes 50% of the maximum response.
PBT: Persistent, Bioaccumulative and Toxic.
vPvB: Very Persistent and Very Bioaccumulative.
NOEC: The highest tested concentration at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.
NOAEL: The highest tested dose or exposure level at which there are no statistically significant increases in the frequency or severity of adverse effects between the exposed population and an appropriate control group; some effects may be produced at this level, but they are not considered adverse or precursors of adverse effects.

Other:

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with ot

Minor changes have been made in following sections:

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This material safety data sheet replaces version:

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