

Material Safety Data Sheet

Completed 22-02-2021
Revision: (date) -
SDS version 1.0

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

1.1. Product Identifier

Trade Name: Metallic marker

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

Recommended uses:

Markers

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: LMJ

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):

2.2. Label elements

-

Signal word:

-

Safety data sheet available on request. (EUH 210)

2.3. Other hazards

-

Additional labelling:

-

Additional warnings

-

Material Safety Data Sheet

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
Carbon black	- / -	1333-86-4	215-609-9	-	1-5	1
Aluminium	013-002-00-1 / -	7429-90-5	231-072-3	-	1-5	1
Pigment Violet 23	- / -	6358-30-1	228-767-9	Water-react. 2; H261, Flam. Sol. 1; H228	1-5	1
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 3;H412	1-3	-

1) The substance has a national exposure limit.

See full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

In case of discomfort: Seek fresh air.

Ingestion:

Not relevant.

Skin contact:

Wash skin with soap and water.

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

No irritation anticipated when used normally.

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

Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

All extinguishing media can be used.

Surrounding fire:

Extinguish with powder, foam, carbon dioxide or water mist.

5.2. Special hazards arising from the substance or mixture

The product is not directly flammable. 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

No special requirements.

6.2. Environmental precautions

Not relevant.

6.3. Methods and material for containment and cleaning up

Not relevant.

6.4. Reference to other sections

See section 13 for instructions on disposal.

Material Safety Data Sheet

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special requirements.

7.2. Conditions for safe storage, including any incompatibilities

Keep in tightly closed original packaging.

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/m ³	Short-term exposure limit ppm / mg/m ³	Note
Carbon black	- / 2	-	-
Aluminium metal inhalable dust	- / 10	-	-
respirable dust	- / 4	-	-
2-Amino-2-methylpropanol			

DNEL/PNEC-values:

No data.

8.2. Exposure controls

There are no exposure scenarios for this product.

Appropriate engineering controls:

No special requirements.

Respiratory protection:

Not required.

Hand protection:

Not required.

Eye/face protection:

Not required.

Skin protection:

Not required.

Environmental exposure controls:

Not relevant.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Marker
Colour:	Different
Odour:	-
Melting point/ Freezing Point (°C):	-
Boiling point or initial boiling point and boiling range (°C):	100
Flammability:	-
Lower and upper explosion limit (vol-%):	-
Flash point (°C):	>113
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
pH:	7,5-8,4
Kinematic viscosity (mm ² /s):	-
Solubility:	Miscible with water
Partition coefficient n-octanol/water (log value)	-
Vapour pressure:	23 hPa
Density and/or relative density:	1,1
Relative vapour density:	-
Particle characteristics:	-

Material Safety Data Sheet

9.2. Other information

Viscosity:

9 mPas

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

Acute toxicity:

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

Substance	exposure	Species	Test	Result
Carbon black	Oral	Rat	LD50	> 8000 mg/kg bw
Carbon black	Inhalation	Rat	LC50/ 4 Hours	> 4,6 mg/m ³ air
Aluminium	Oral	Rat	LD50	> 15900 mg/kg bw
Aluminium	Inhalation	Rat	LC50/ 4 Hours	> 2,3 mg/L air
2-Amino-2-methylpropanol	Oral	Rat	LD50	2900 mg/kg bw
2-Amino-2-methylpropanol	Dermal	Rat	LD50	> 2000 mg/kg bw

Skin corrosion/irritation:

Skin irritation is not anticipated when used normally.

Serious eye damage/irritation:

May cause mechanical irritation.

Respiratory or skin sensitisation:

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

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.

11.2. Information on other hazards

Test data are not available.

Material Safety Data Sheet

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
Carbon black	24 Hours	Daphnia	EC50	> 5600 mg/L
Carbon black	72 Hours	Algae	EC50	> 10000 mg/L
Aluminium	96 Hours	Fish	LC50	> 218644,1 µg/L
Aluminium	48 Hours	Daphnia	EC50	0,72 mg/L
Aluminium	72 Hours	Algae	EC50	200 µg/L
2-Amino-2-methylpropanol	96 Hours	Fish	LC50	190 mg/L
2-Amino-2-methylpropanol	48 Hours	Daphnia	LC50	179 mg/L
2-Amino-2-methylpropanol	72 Hours	Algae	EC50	609 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
2-Amino-2-methylpropanol	No	OECD Guideline 301 F	28 Days 89,30%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow
2-Amino-2-methylpropanol	No	ca. -0,63

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. Endocrine disrupting properties

Test data are not available.

12.7. Other adverse effects

None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is not classified as hazardous waste according to Waste Management. Disposal of spillage and waste via the municipal waste collection service with the specifications below is recommended.

EWC-Code	Description
20 01 28	Paint, inks, adhesives and resins other than those mentioned in 20 01 27

Specific labelling:

-

Contaminated packaging:

Empty packaging and residues can be disposed with household waste.

Material Safety Data Sheet

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

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14.7. Maritime transport in bulk according to IMO instruments

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:

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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.

EU regulation no. 276/2010

Directive 2000/532/EC

ECHA - The European Chemicals Agency

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

H228	Flammable solid.
H261	In contact with water releases flammable gases.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

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

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Material Safety Data Sheet

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 other chemicals/products.

Minor changes have been made in following sections:

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This material safety data sheet replaces version:

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