

Safety Data Sheet

**According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008**

Outline pen ink

Version 1.0

Issue date: 30-05-2023

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SDS Record Number: C555-TCO-010-144137

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Outline pen ink
 Additional identification: Nanoform is NOT covered by this SDS.
 UFI: N/A
 Identification of the product: See section 3
 Index Number: See section 3
 REACH registration No.: See section 3

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

1.2.1 Identified uses:

Painting.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):

Supplier(Manufacturer):

Address:

Contact person(E-mail):

Telephone:

Fax:

1.4 Emergency telephone Number:

(Only available during office hours (9:00a.m.-17:30p.m.) Available outside

office hours?

YES

NO

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification of the mixture:

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

REGULATION (EC) No 1272/2008

Hazard classes/Hazard categories	Hazard codes
N/A	N/A

2.2 Label elements:

Hazard pictogram(s):

No hazard pictogram is used.

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Signal word:	No signal word is used.
Hazard statement(s):	Not applicable.
Precautionary statement(s):	Not applicable.
Supplemental Hazard information (EU)	Not applicable.

2.3 Other hazards:

The mixture does not contain PBT/vPvB substance.

The mixture does not contain endocrine disruptor.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	CAS No.	EC No	Concentration(%)			Classification
			Red 01A	Sky Blue 02A	Pink 03A	
Propylene glycol monomethyl	107-98-2	203-539-1	24	24	24	Not Classified
Ethanol	64-17-5	200-578-6	57.7	61.7	59.7	Not Classified
Gum rosin	73138-82-6	232-475-7	10	10	10	Not Classified
Tris(2-Hydroxyethyl)Amine	102-71-6	203-049-8	0.3	0.3	0.3	
Aluminium	7429-90-5	231-072-3	3	3	3	H228; H261;
Solvent Red 49	509-34-2	208-096-8	5	-	2	Not Classified
Solvent Blue 70	12237-24-0	602-674-7	-	1	-	Not Classified
Brilliant yellow B6GL	29556-33-0	249-694-9	-	-	1	Not Classified
Chemical Name	CAS No.	EC No	Concentration(%)			Classification
			Yellow 04A	Green 05A	Black 06A	
Propylene glycol monomethyl	107-98-2	203-539-1	24	24	24	Not Classified
Ethanol	64-17-5	200-578-6	57.7	57.7	57.7	Not Classified
Gum rosin	73138-82-6	232-475-7	10	10	10	Not Classified
Tris(2-Hydroxyethyl)Amine	102-71-6	203-049-8	0.3	0.3	0.3	
Aluminium	7429-90-5	231-072-3	3	3	3	H228; H261;
Solvent Blue 70	12237-24-0	602-674-7	-	3	-	Not Classified
Brilliant yellow B6GL	29556-33-0	249-694-9	5	2	-	Not Classified
Solvent Black 5	11099-03-9	601-023-4	-	-	5	Not Classified
Chemical Name	CAS No.	EC No	Concentration(%)			Classification
			Yellow 07A	Orange 08A	Pink 09A	
Propylene glycol monomethyl	107-98-2	203-539-1	24	24	24	Not Classified
Ethanol	64-17-5	200-578-6	56.7	57.7	61.2	Not Classified
Gum rosin	73138-82-6	232-475-7	10	10	10	Not Classified
Tris(2-Hydroxyethyl)Amine	102-71-6	203-049-8	0.3	0.3	0.3	

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Aluminium	7429-90-5	231-072-3	3	3	3	H228; H261;
Solvent Red 49	509-34-2	208-096-8	1	3	1	Not Classified
Solvent Blue 70	12237-24-0	602-674-7	-	-	-	Not Classified
Brilliant yellow B6GL	29556-33-0	249-694-9	5	2	0.5	Not Classified
Chemical Name	CAS No.	EC No	Concentration(%)			Classification
			Blue 10A	Gray 11A	Purple 12A	
Propylene glycol monomethyl	107-98-2	203-539-1	24	24	24	Not Classified
Ethanol	64-17-5	200-578-6	57.7	60.7	56.7	Not Classified
Gum rosin	73138-82-6	232-475-7	10	10	10	Not Classified
Tris(2-Hydroxyethyl)Amine	102-71-6	203-049-8	0.3	0.3	0.3	
Aluminium	7429-90-5	231-072-3	3	3	3	H228; H261;
Solvent Red 49	509-34-2	208-096-8	-	0.5	3	Not Classified
Solvent Blue 70	12237-24-0	602-674-7	5	-	2	Not Classified
Brilliant yellow B6GL	29556-33-0	249-694-9	-	0.5	1	Not Classified
Solvent Black 5	11099-03-9	601-023-4	-	1	-	Not Classified

0% of the mixture consists of component (s) of unknown toxicity.

0% of components with unknown hazards to the aquatic environment.

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

None expected to require first aid measures. If breathed in, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical attention.

4.1.2 In case of skin contact:

None expected to require first aid measures. Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.

4.1.3 In case of eyes contact:

None expected to require first aid measures. Flush with running water for at least 15 minutes. If irritation persists get medical attention.

4.1.4 In case of ingestion:

Immediate first aid is not likely to be required. A physician or poison control center can be contacted for advice.

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

The product is not classified as harmful to human health effect.

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

Symptomatic treatment.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Use extinguishing agents appropriate for surrounding fire.

Unsuitable extinguishing media:

Not available.

5.2 Special hazards arising from the substance or mixture

No specific fire or explosion hazard.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus for fire fighting if necessary.

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Section 6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

6.1.1 For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.1.2 For emergency responders: Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

6.2 Environmental Precautions: Avoid disposing into drainage/sewer system or directly into the aquatic environment.

6.3 Methods and material for Containment and Cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections: See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

Section 7 Handling and storage**7.1 Precautions for safe handling:**

7.1.1 Protective measures: Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s): Not available.

Section 8 Exposure Controls/Personal Protection**8.1 Control parameters:****8.1.1 Occupational exposure limits:**

Country	Substance	EC No.	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		Notes
				ppm	mg/m ³	ppm	mg/m ³	
Ireland	Aluminium metal;	231-072-3	7429-90-5	-	1 (R)	-	-	-

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Use adequate ventilation to keep airborne concentrations low.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: No special requirements.

Skin protection

Hand protection: No special requirements. Wear gloves if necessary.

Body protection: No special requirements.

Respiratory protection: No special requirements.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. Dispose of rinse water in accordance with local and national regulations

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Section 9 Physical and chemical properties**9.1 Information on basic physical and chemical properties:**

Appearance:	Liquid
Colour:	
Odour:	Not available
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	Not available
Boiling point/range (°C):	Not available
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Relative Density:	Not available
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Not available
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Non explosive
Oxidising properties:	Not oxidising properties

9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

Section 10 Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials.
10.5 Incompatible materials:	Strong oxidizing agents.
10.6 Hazardous decomposition products:	Carbon oxides.

Section 11 Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:****Acute toxicity:****Tris(2-Hydroxyethyl)Amine (CAS: 102-71-6)**

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LD50(Oral, Rat):	6400 mg/kg bw
LD50(Dermal, Rabbit):	> 2000 mg/kg bw
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified
11.2 Information on other hazards	
Endocrine disrupting properties	The mixture does not contain endocrine disruptor.
Other information	Not applicable

Section 12 Ecological information

12.1 Toxicity:

Tris(2-Hydroxyethyl)Amine (CAS: 102-71-6)

Acute (short-term) toxicity:

LC50(96h, Fish):	11800 mg/L
EC50(48h, Crustacea):	609.88 mg/L
EC50(72h, Algae/aquatic plants):	216 mg/L

Chronic (long-term) toxicity:

NOEC(Fish):	> 1 mg/L
NOEC(Crustacea):	125 mg/L
EC50(Algae/aquatic plants):	Not available

12.2 Persistence and degradability: Not available.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: The mixture does not contain PBT / vPvB substance.

12.6 Endocrine disrupting properties: The mixture does not contain endocrine disruptor.

12.7 Other adverse effects: Not available.

12.8 Additional information Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

Section 14 Transport information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
14.1 UN number or ID number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated

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14.3 Transport hazard Class(es)	Not regulated	Not regulated	Not regulated	Not regulated
14.4 Packing group	Not regulated	Not regulated	Not regulated	Not regulated
14.5 Environmental hazards	No	No	No	No
14.6 Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
14.7 Maritime transport in bulk according to IMO instruments	Not regulated	Not regulated	Not regulated	Not regulated

Section 15 Regulatory information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical safety assessment

YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2020/878

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

UFI: Unique Formula Identifier

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Training instructions:

Not applicable.

16.5 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.6 Notice to reader:

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Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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