

Safety Data Sheet

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

1.1. Product identifier

Code: V69924 black
Name: INK TIPS (black)

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

Description/Use: Ink contained in pens. For use in play activities. Consumer use.

1.3. Information on the supplier of the safety data sheet

Company: CLEMENTONI Spa
Address: ZONA INDUSTRIALE FONTENOCE 62019 RECANATI (MC)
ITALIA
tel. 071 75811
fax 071 758123

e-mail of the competent person responsible for the safety data sheet: info@clementoni.it

Responsible for placing on the market: Reparto Tecnico

1.4. Emergency telephone number (Italy)

For urgent information contact:
Centro Antiveleni - Osp. Pediatrico Bambino Gesù - Dip. Emergenza e Accettazione DEA - Roma - Tel. 06 68593726
Centro Antiveleni - Azienda Ospedaliera Universitaria - Foggia - Tel. 800183459
Centro Antiveleni - Azienda Ospedaliera A. Cardarelli - Napoli - Tel. 081 5453333
Centro Antiveleni - Policlinico Umberto I - Roma - Tel. 06 49978000
Centro Antiveleni - Policlinico A. Gemelli - Roma - Tel. 06 3054343
Centro Antiveleni - Azienda Ospedaliera Careggi U.O. Tossicologia Medica - Firenze - Tel. 055 7947819
Centro Antiveleni - Centro Nazionale di Informazione Tossicologica - Pavia - Tel. 0382 24444
Centro Antiveleni - Ospedale Niguarda Cà Granda - Milano - Tel. 02 66101029
Centro Antiveleni - Azienda Ospedaliera Papa Giovanni XXII - Bergamo - Tel. 800883300
Centro Antiveleni - Azienda Ospedaliera Integrata Verona - Verona - Tel. 800011858

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous under the provisions of Regulation (EC) 1272/2008 (CLP) (as amended and adapted).

Hazard classification and indications: The product is not classified as hazardous under the provisions of Regulation (EC) 1272/2008 (CLP) (as amended and adapted).

2.2. Label elements

Hazard pictograms: None
Warnings: None
Hazard Statements: None
Precautionary advice: None

2.3. Other dangers

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SECTION 2. Hazards identification ... / >>

According to the available data, the product does not contain PBT or vPvB substances in a proportion ≥ 0.1 %.

The product does not contain substances with endocrine-disrupting properties in concentrations ≥ 0.1%.

SECTION 3. Composition / information on ingredients

3.1. Substance

Not relevant information

3.2. Mixture

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
PROPYLENE GLYCOL		
INDEX	10 ≤ x < 15	
CE	200-338-0	
CAS	57-55-6	
GLYCEROL		
INDEX	5 ≤ x < 10	
CE	200-289-5	
CAS	56-81-5	
Acid rose red B		
INDEX	1,5 ≤ x < 2,5	
CE	222-529-8	
CAS	3520-42-1	
SODIUM BENZOATE		
INDEX	0,25 ≤ x < 0,35	Acute Tox. 4 H302
CE	208-534-8	STA Oral: 500 mg/kg
CAS	532-32-1	

The full text of the hazard statements (H) can be found in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

No effects are expected to require the implementation of special first aid measures. The following information is practical guidance on proper behavior in case of contact with even a nonhazardous chemical.

If in doubt or if symptoms are present, contact a physician and show him/her this document.

In case of more serious symptoms, call 118 to get immediate medical help.

Protection of rescuers

It is good practice for the rescuer rendering aid to a person, who has been exposed to a chemical substance or mixture, to wear personal protective equipment. The nature of such protection depends on the hazardous nature of the substance or mixture, the mode of exposure and the extent of contamination. In the absence of other, more specific guidance, disposable gloves are recommended for possible contact with biological fluids. Refer to Section 8 for the type of PPE appropriate for the characteristics of the substance or mixture.

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

No specific information is known about symptoms and effects caused by the product.

4.3. Indication of any need to immediately consult a doctor and special treatments

In case of symptoms, whether acute or delayed, consult a doctor.

Means to be available at the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

The extinguishing media are the traditional ones: carbon dioxide, foam, powder and water fog.

UNSUITABLE EXTINGUISHING MEDIA

None in particular.

5.2. Special hazards arising from the substance or mixture

EXPOSURE HAZARDS IN CASE OF FIRE

Avoid breathing in the products of combustion.

5.3. Advice for firefighters

GENERAL INFORMATION

Cool containers with water jets to prevent decomposition of the product and the development of substances potentially hazardous to health.

Always wear full fire protection equipment. Collect extinguishing water which must not be discharged into the sewers. Dispose of contaminated extinguishing water and fire residue in accordance with current regulations.

EQUIPMENT

Normal fire-fighting clothing, such as an open-circuit self-contained breathing apparatus (EN 137), flame-proof suit (EN469), flame-proof gloves (EN 659) and firefighter's boots (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of airborne vapors or dusts, adopt respiratory protection. These directions apply to both work crews and emergency responders.

6.2. Environmental precautions

Prevent the product from entering sewers, surface water and groundwater.

6.3. Methods and materials for containment and cleaning up

Embank with soil or inert material. Collect most of the material and remove the residue with water jets. Disposal of contaminated material should be carried out in accordance with the provisions of Section 13.

6.4. Reference to other sections

Any information regarding personal protection and disposal is reported in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handle the product after consulting all other sections of this information sheet. Avoid dispersing the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Keep containers closed, in a well-ventilated place, out of direct sunlight. Keep containers away from any incompatible materials, see section 10.

7.3. Specific end use(s)

Ink contained in pens. For use in play activities. When using, follow the precautions in Sections 7.1 and 7.2 of this document.

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SECTION 8. Exposure controls/personal protection ... / >>

SODIUM BENZOATE

Threshold limit value

Type	State	TWA/8h	STEL/15min	Notes / Observations
		mg/m3ppm	mg/m3ppm	
TLV-ACGIH		2,5		INALAB
TLV-ACGIH		2,5		SKIN

Predicted No Effect Concentration on the Environment - PNEC

Reference value in fresh water	0,581	mg/l
Reference value in seawater	0,0581	mg/l
Freshwater sediment reference value	2,5	mg/kg/d
Reference value for sediment in seawater	0,25	mg/kg/d
Marine water reference value, intermittent release	0,0581	mg/l
Freshwater reference value, intermittent release	0,00581	mg/l
Reference value for STP microorganisms	10	mg/l
Reference value for the food chain (secondary poisoning)	300	mg/kg
Reference value for the land compartment	0,158	mg/kg/d
Reference value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of Exposure	Effects on consumers				Effects on workers			
	Local acute	Systemic acute	Local chronic	Systemic chronic	Local acute	Systemic acute	Local chronic	Systemic chronic
Oral		NPI		16,6 mg/kg bw/d				
Inhalation	NPI	NPI	0,060 mg/m3	1,5 mg/m3	NPI	NPI	0,100 mg/m3	3 mg/m3
Dermal	NPI	NPI	NPI	31,25 mg/kg bw/d	NPI	NPI	NPI	62,5 mg/kg bw/d

Legend:

(C) = CEILING ; INALAB = Inhalable Fraction ; RESPIR = Breathable Fraction ; TORAC = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

Observe the usual safety measures when handling chemicals.

HAND PROTECTION

Not required.

SKIN PROTECTION

Not required.

EYE PROTECTION

Not required.

RESPIRATORY PROTECTION

The use of respiratory protection equipment is necessary if the technical measures taken are not sufficient to limit the worker's exposure to the threshold values considered. It is advisable to wear a mask with a type A filter, the class (1, 2 or 3) of which should be chosen in relation to the limit concentration of use. (ref. standard EN 14387).

In the event that the substance in question is odourless or its odour threshold is higher than the relative TLV-TWA and in the event of an emergency, wear an open-circuit self-contained compressed air breathing apparatus (ref. standard EN 137) or a supplied-air respirator (ref. standard EN 138). For the correct choice of respiratory protective device, refer to EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment should be controlled to comply with environmental protection legislation.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Physical state	liquid	
Colour	black	
Smell	no odour	
Melting or freezing point	not determined	
Initial boiling point	100 °C	
Flammability	not applicable	
Lower explosive limit	not determined	
Upper explosive limit	not determined	
Flash point	> 93 °C	

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SECTION 9. Physical and chemical properties ... / >>		
Auto-ignition temperature Decomposition temperature pH Kinematic viscosity Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or Relative density Relative vapour density Particle characteristics	not determined not determined 3-10 not determined soluble in water not determined not available not determined not determined not applicable	
9.2. Other information		
9.2.1. Information regarding physical hazard classes		
Explosives Explosives Note:Non-explosive		
9.2.2. Additional safety features		
Total Solids (250°C / 482°F) VOC (Directive 2010/75/EU) VOC (volatile carbon) Explosive properties	44,30 % 20,00 % - 199.600,00 g/litro 8,80 % - 87.872,53 g/litro non-explosive	
SECTION 10. Stability and reactivity		
10.1. Reactivity		
There are no particular dangers of reaction with other substances under normal conditions of use. PROPYLENE GLYCOL Hygroscopic.Stable under normal conditions of use and storage. Tends to oxidise at high temperatures to give propionaldehyde and lactic and acetic acid.		
10.2. Chemical stability		
The product is stable under normal conditions of use and storage.		
10.3. Possibility of hazardous reactions		
Under normal use and storage conditions, no hazardous reactions are to be expected. PROPYLENE GLYCOL Can react dangerously with: acid chlorides, acid anhydrides, oxidising agents.		
10.4. Conditions to avoid		
None in particular. However, observe the usual precautions with chemicals.		
10.5. Incompatible materials		
There are no known materials incompatible with this chemical.		
10.6. Hazardous decomposition products		
PROPYLENE GLYCOL Can develop: carbon oxides.		
SECTION 11. Toxicological information		
There are no known incidents of damage to health due to exposure to the product. In any case, it is recommended to work in accordance with the rules of good industrial hygiene.		
11.1. Information on the hazard classes defined in Regulation (EC) No. 1272/2008		
Metabolism, kinetics, mechanism of action and other information		

SECTION 11. Toxicological information ... / >>

Information not available

Information on likely routes of exposure

Information not available

Immediate, delayed and chronic effects resulting from short- and long-term exposures

Information not available

Interactive effects

No information is known about interactive effects of the product.

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no relevant component)

ATE (Oral) of the mixture:

Not classified (no relevant component)

ATE (Dermal) of the mixture:

Not classified (no relevant component)

PROPYLENE GLYCOL

LD50 (Dermal):

2000 mg/kg rabbit

LD50 (Oral):

22000 mg/kg rat

LC50 (Vapor Inhalation):

44,9 mg/l/4h rat

GLYCEROL

LD50 (Dermal):

45 ml/kg guinea pigs

LD50 (Oral):

> 11500 mg/kg

LC50 (Vapor Inhalation):

> 5,85 mg/l/4h rat

Acid rose red B

LD50 (Oral):

5000 mg/kg rat

SODIUM BENZOATE

LD50 (Dermal):

2000 mg/kg rabbit

LD50 (Oral):

2000 mg/kg Rat

LC50 (Inhalation mists/dusts):

12,2 mg/l/4h rat

SKIN CORROSION / SKIN IRRITATION

Does not meet the classification criteria for this hazard class

SEVERE EYE DAMAGE / EYE IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITIZATION

Does not meet the classification criteria for this hazard class

MUTAGENICITY ON GERMINAL CELLS

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTION TOXICITY

Does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) – SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) – REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

SECTION 11. Toxicological information ... / >>**DANGER IN CASE OF SUCTION**

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

According to the available data, the product does not contain any substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

SECTION 12. Ecological information

Use according to good working practices, avoiding dispersion of the product in the environment. Notify the competent authorities if the product has reached waterways or contaminated soil or vegetation.

12.1. Toxicity

SODIUM BENZOATE	
LC50 - Fish	484 mg/l/96h
EC50 - Algae/Aquatic Plants	30,5 mg/l/72h
NOEC Chronic Crustaceans	5,81 mg/l

PROPYLENE GLYCOL	
LC50 - Fish	40,613 g/l/96h
EC50 - Crustaceans	18,8 g/l/48h
EC50 - Algae / Aquatic Plants	19 g/l/72h
NOEC Chronic Crustaceans	> 13,02 g/l
NOEC Chronic Algae / Aquatic Plants	> 5,3 g/l

GLYCEROL	
LC50 - Fish	54 g/l/96h
EC50 - Crustaceans	10 mg/l/48h

Acid rose red B	
EC50 - Crustaceans	120 mg/l/48h

12.2. Persistence and degradability

SODIUM BENZOATE	
Solubility in water	> 10000 mg/l
Rapidly degradable	

PROPYLENE GLYCOL	
Solubility in water	100 vol% @20°C and pH 7,1-7,8
Rapidly degradable	

GLYCEROL	
Solubility in water	1000 g/l @25°C
Rapidly degradable	

Acid rose red B	
Solubility in water	95300 mg/l

12.3. Bioaccumulation potential

SODIUM BENZOATE	
Partition coefficient: n-octanol/water	1,88

PROPYLENE GLYCOL	
Partition coefficient: n-octanol/water	-1,07
BCF	0,09

GLYCEROL	
Partition coefficient: n-octanol/water	-1,75 Log Kow @25°C and pH 7,4

Acid rose red B	
Partition coefficient: n-octanol/water	-2,2 Log Kow

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SECTION 12. Ecological information ... / >>			
12.4. Mobility in soil			
No information is known regarding the mobility in soil of the chemical.			
12.5. Results of PBT and vPvB assessment			
According to the available data, the product does not contain PBT or vPvB substances in a proportion ≥ 0.1 %.			
12.6. Properties of interference with the endocrine system			
According to the available data, the product does not contain any substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.			
12.7. Other adverse effects			
No information is known about other adverse effects of the chemical product.			
SECTION 13. Disposal considerations			
13.1. Waste treatment methods			
Reuse if possible. Product residues as such are to be considered special non-hazardous waste. Disposal must be entrusted to an authorised waste management company in accordance with national and, if applicable, local regulations. CONTAMINATED PACKAGING Contaminated packaging must be sent for recovery or disposal in accordance with national waste management regulations.			
SECTION 14. Transport information			
The product is not to be regarded as dangerous in the sense of the regulations in force for the transport of dangerous goods by road (A.D.R.), by rail (RID), by sea (IMDG Code) and by air (IATA).			
14.1. UN Number or ID number			
not applicable			
14.2. UN proper shipping name			
not applicable			
14.3. Transport hazard class(es)			
not applicable			
14.4. Packaging group			
not applicable			
14.5. Environmental hazards			
not applicable			
14.6. Special precautions for user			
not applicable			
14.7. Bulk shipping in accordance with IMO acts			
Information not relevant			

SECTION 15. Regulatory information

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

Seveso Category – Directive 2012/18/EC: None

Restrictions on the product or contained substances according to Annex XVII Regulation (EC) 1907/2006

Substances contained

Point	75	Acid rose red B
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Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)

Based on available data, the product does not contain SVHC substances in percentage $\geq 0.1\%$.

Substances subject to authorization (Annex XIV REACH)

None

Substances subject to export notification obligation Reg. (EC) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Sanitary checks

Information not available

Legislative Decree 152/2006 and subsequent amendments

Emissions according to Part V Annex I:

TAB. D	Class III	12,00 %
WATER		35,70 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture / for the substances listed in section 3.

SECTION 16. Other information

Text of the hazard statements (H) cited in sections 2-3 of the sheet:

Acute Tox. 4 H302	Acute toxicity, category 4 Harmful if swallowed.
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LEGEND:

- ADR: European Agreement concerning the Transport of Dangerous Goods by Road
- ATE / STA: Acute Toxicity Estimate
- CAS: Chemical Abstract Service number
- EC: Identification number in ESIS (European Database of Existing Substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Concentration giving effect to 50% of the test population
- EmS: Emergency Schedule
- GHS: Globally Harmonised System for the Classification and Labelling of Chemicals
- IATA DGR: Dangerous Goods Regulations of the International Air Transport Association
- IC50: Concentration of immobilisation of 50% of the test population
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of CLP
- LC50: 50% Lethal concentration
- LD50: 50% Lethal dose
- OEL: Occupational exposure level

SECTION 16. Other information. ... / >>

- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted Environmental Concentration
- PEL: Predicted Exposure Level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no-effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation for the International Carriage of Dangerous Goods by Rail
- TLV: Threshold limit value
- TLV CEILING: Concentration not to be exceeded at any time during occupational exposure.
- TWA: Weighted Average Exposure Limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Aquatic hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 2020/878 (All. II REACH Regulation)
4. Regulation (EC) 790/2009 of the European Parliament (Atp. I CLP)
5. Regulation (EU) 286/2011 of the European Parliament (Atp. II CLP)
6. Regulation (EU) 618/2012 of the European Parliament (Atp. III CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (EU) 2021/643 (XVI ATP. CLP)
21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (EU) 2023/707
24. Delegated Regulation (EU) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (EU) 2023/1435 (XX Atp. CLP)

- The Merck Index. - 10th Edition.
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS Website
- ECHA Agency Website
- Database of model SDSs of chemical substances. - Ministry of Health and National Institute of Health

Note to the user:

The information in this sheet is based on the knowledge available to us as of the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be construed as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe under his or her own responsibility the applicable laws and regulations on hygiene and safety. We assume no responsibility for improper use.

Provide adequate training for personnel involved in the use of chemicals.

CLASSIFICATION CALCULATION METHODS

Chemical physical hazards: The classification of the product was derived from the criteria set out in the CLP Regulation Annex I Part 2. The assessment methods for chemical physical properties are given in Section 9.

Health Hazards: The classification of the product is based on the calculation methods in CLP Annex I Part 3, unless otherwise stated in Section 11.

Environmental Hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 4, unless otherwise stated in section 12.