

MuchColours

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH) Regulation (EC) No. 1272/2008

Date of issue: 01.06.2015

Revision:02

n/a. = not-applicable
n.d. = not determined

NANO INK PIG BLACK

1. Identification of the mixture/article and of the company/undertaking

1.1 Identification of the substance or mixture

| | |
|--|------------------------|
| Trade name | Nano Ink PIG BLACK |
| Index-No: | none |
| EG-No.: | none |
| CAS-No.: | none |
| REACH-Registration No.: | none |
| Use of the Substance/preparation/article | Ink for industrial use |

1.2 Company / undertaking identification

Supplier (manufacturer/importer/downstream user/distributor):
Muchcolours Srl
Via California, sn
63015 Montesilvano (PE) Italia
Telefono: +39085.4450572
email: info@muchcolours.com

1.3 Emergency telephone:

Centro Nazionale di Informazione Tossicologica (24h): +39 0382 24444

2. Hazards description

2.1 Classification of the Substance / mixture / article

Flam. Liq. 3; H226;
Eye irrit. 2; H319;
STOT SE 2; H371

2.2 Label element

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness and dizziness.

Precautionary statements:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

2.3 Other hazards

EUH066 Repeated exposure may cause skin dryness or cracking.

3. Composition/information on ingredients

3.1 Substances

The product this document refers to is a mixture.

3.2 Mixtures

Composition/ informations to the ingredients

1-ETHOXYPROPAN-2-OL; EG no. 216-374-5; CAS: 1569-02-4; Index no. 603-177-00-8

Classification according to regulation (EC) 1272/2008: Flam. Liq. 3; H226; Eye Irrit. 2; H319; STOT SE

3

H336

ETHYLETHOXYPROPIONAT; EG no. 212-112-9; CAS: 763-69-9

Classification according to regulation (EC) 1272/2008: Flam. Liq. 3; H226

The wording of the hazard statements can be found in section 16.

Substances which are listed in the „Candidate List of Substances of Very High Concern (SVHC) for Authorization“ of the European Chemicals Agency (ECHA) are not deliberate components of this product.

It is not to expect, that such substances are contained in this product in a concentration beyond 0.1%.

4. First aid measures

4.1 Description of first aid measures

General hints

Remove immediately contaminated clothing. In case of health disorders ask immediately physician.

After inhalation

Supply fresh air. In case of irritation of the respiratory tract, ask physician.

After skin contact

Wash with plenty of water and soap.

After Eye contact

Rinse continuously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing with water.

After ingestion

Wash mouth immediately with water. Drink plenty of water in small sips (effect of dilution). Do not actively induce vomiting, avoid vomiting if possible. Do not try to neutralize.

4.2 Most important symptoms and effects, both acute and delayed

Problems in coordination.

4.3 Indication of any immediate medical attention and special treatment needed

In case of unconsciousness: immediately alert emergency physician!

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam (alcohol resistant), carbon dioxide, powder.

Not suitable extinguishing media

Do not apply water jet to avoid spreading of the fire.

5.2 Special hazards arising from the substance or mixture

In case of a fire, dangerous gases/ vapours may be generated: Carbon monoxide, carbon dioxide

5.3 Advice for fire fighters

Wear suitable breathing apparatus. Cool container with water spray from safe distance. Use water mist to deposit vapours/fumes. Pay attention to the risk of re-ignition. Avoid penetration of used extinguishing media to soil and waters. Avoid skin contact by wearing suitable protection clothing and by keeping a safety distance.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact to the product and inhalation of solvent vapours. Avoid skin contact by wearing suitable protection clothing and by keeping a safety distance. Use protection clothing according to section 8.

6.2 Environmental precaution

Avoid penetration of product or contaminated wash water to soil and waters. Cover inlets to sewerage to avoid penetration of the product to sewerage. An emission control system can be used to limit the emission of volatile organic components (VOC).

6.3 Methods and material for containment and cleaning up

Pump product into suitable container. If not applicable, absorb with absorption material.

6.4 Reference to other sections

Also see protection measures in section 7, 8 and 13.

7. Handling and Storage

7.1 Precautions for safe handling

Hints for safe handling

Keep container closed. General safe working practise: Do not eat, drink or smoke in working areas. Wash your hands after working. Remove personal protection clothing after leaving the working area.

Hints for fire and explosion protection

Solvent vapours are heavier than air. Explosive Vapour/air mixtures may occur even at room temperature. Take action to avoid static charge at product transfers. In the area of risk, use only non sparking tools. Keep away from oxidisers or substances which do support combustion.

7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: Room temperature, do not exceed 20°C. Do not store together with: medicine, food or feeding stuff
self-combustible substances
substances which form combustible gases at water contact
organic peroxides
Store at a place with solvent resistant floor or in a suitable collecting pan. Keep in original or in accordingly container.

7.3 Specific end use(s)

Please refer to our technical information for additional product hints.

8. Exposure controls/personal protection

8.1 Control parameters

not applicable.

8.2. Exposure controls

Suitable technical means

Technical measures and application of suitable working procedures are preferred against the use of personal protective equipment. Take care for good ventilation. This can be done by local exhaust ventilation or by general ventilation.

Personal protection

Breathing protection

A breathing apparatus must be used, if a protection threshold is exceeded.

Hand protection

Use solvent resistant gloves according to EN 374.

Eye protection

Use protection goggles according to EN 166:2001.

Limitation and surveillance of environmental exposition

see sections 6 and 7.

9. Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Appearance: Black liquid

Smell: remarkable characteristic, solvent-like.

Safety related properties

| Parameter | Value,Unit | Method | Remarks |
|------------------|------------------------|-----------|---------|
| Flash point | 26,5°C | DIN 51755 | |
| pH-value | 5,5 | | |
| Begin of boiling | 80°C | | |
| Viscosity | 5 mPa*s | | |
| Density | 0,9 kg/dm ³ | | |

9.2 Other information

The corrosion properties against metals was not tested.

10. Stability and Reactivity

10.1 Reactivity

Reacts with strong oxidizers and strong reductants, with a risk of fire or explosion. Reacts with strong acids with a risk of fire or explosion. Reacts with e.g. acid anhydrides and alkaline metals, with a risk of fire or explosion.

10.2 Chemical stability

The product is in normal conditions (room temperature) chemically stable.

10.3 Possibility of hazardous reactions

If stored and used as recommended, no dangerous reactions are to expect.

10.4 Conditions to avoid

Raised temperatures facilitate the evaporation of organic components.

10.5 Incompatible materials

Plastics and rubber may be corroded.

10.6 Hazardous decomposition products

Contact with strong oxidisers, alkali metals or acids may generate combustible gas (hydrogen).

11. Toxicological information

11.1 Information on toxicological effects

There are no information about the toxicological effects of the product.

Acute Toxicity

1-ETHOXYPROPAN-2-OL; EG no. 216-374-5; CAS: 1569-02-4; Index no. 603-177-00-8

LD50 (oral, rat): 4400 mg/kg

LD50 (dermal, rabbit): 8100 mg/kg

LC50 (inhalative, rat): >42,6 mg/l/4h

ETHYLETHOXYPROPIONATE; EG no. 212-112-9; CAS: 763-69-9

LD50 (oral, rat): 5000 mg/kg

LD50 (dermal, rabbit): 9490 mg/kg

Irritation

1-ETHOXYPROPAN-2-OL; EG no. 216-374-5; CAS: 1569-02-4; Index no. 603-177-00-8

Causes serious eye irritation.

Corrosion

not applicable.

Sensitization

not applicable.

Toxicity (repeated application)

not applicable.

Carcinogenicity

not applicable.

Mutagenicity

not applicable.

Reproductive toxicity

not applicable.

12. Ecological informations

12.1. Toxicity

1-ETHOXYPROPAN-2-OL; EG no. 216-374-5; CAS: 1569-02-4; Index no. 603-177-00-8

EC10 (ISO10712, Pseudomonas putida, 16h): 10712 mg/l

EC50 (Daphnia magna, 48h): 180mg/l

LC0 (zebrafish, 96h): >200mg/l

LC50 (Daphnia magna, 96h) 21100 mg/l

NOEC (Daphnia magna, 21d): >180mg/l

NOEC (summer salmon, 21d): >200mg/l

ETHYLETHOXYPROPIONATE; EG no. 212-112-9; CAS: 763-69-9

EC50 (Daphnia magna, 48h): >95 mg/l

EC50 (Pseudokirchneriella subcapitata, 72h): >114 mg/l

LC50 (Pimephales promelas, 96h): 88 mg/l

12.2. Persistence and degradability

ETHYLETHOXYPROPIONATE; EG no. 212-112-9; CAS: 763-69-9

Degradability: (OECD 301B, 18d): 100%

12.3. Bioaccumulative potential

no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

no data available

12.6. Other adverse effects

no data available

13. Disposal considerations

13.1. Waste treatment methods

Do not dispose of chemicals down drain. For proper disposal, refer to local regulations.

14. Transport information

14.1. UN number

UN 1263

14.2. UN proper shipping name

ADR/RID:

Paint

IMDG code/ICAO / IATA-DGR

Paint

14.3. Transport hazard class(es)

ADR / RID / IMDG code / ICAO-TI / IATA-DGR

3 (flammable liquids)

14.4. Packing group

III

14.5. Environmental hazards

Marking as hazardous for the environment:
ADR / RID / IMDG code: no
ICAO-TI / IATA-DGR: no

14.6. Special precautions for user

see sections 6, 7, 8

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The product is packed in suitable containers

15. Regulatory information

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

EU regulations

Regulation (EG) No. 1005/2009:
not applicable

Regulation (EG) No. 850/2004:
not applicable

Regulation (EG) No. 649/2012:
not applicable

Regulation (EG) No. 648/2004:
not applicable

15.2. Chemical safety assessment

A safety assessment for the product was not performed.

16. Other information

Changes compared to the previous version

section 2.2

Literature and data sources

REACH regulation (EG) no. 1907/2006

CLP regulation (EG) no. 1272/2008

List of abbreviations

List of hazard statements:

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

List of precautionary statements:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

16.1 Department issuing MSDS: [A. Rabuffo/MuchColours srl]

Issue: 0002

The information in Chapters 4 to 8 and 10 to 12 are partially based on the use and proper application (see article on use), but to liberation of major amounts in case of accidents and irregularities. The information contained in this safety information is based on the knowledge available at the time of creation. The delivery specifications are contained in the product data sheets. The description of the product is only in relation to health and safety

requirements. This document is not a guarantee of specific properties or specifications.(n.a. - not applicable, n.d. - not determined).

Changes to version 1: Adoption of the requirements of Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No. 1272/2008