

SAFETY DATA SHEET

FLEXO GM PP

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1.0 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY ' / UNDERTAKING

Trade name: FLEXO GM PP

Application of the substance / the preparation: INK FOR PRINTING

Manufacturer / Supplier: GI-EMME SRL

Via C. Battisti 561

45010 Ceregnano (RO) Phone for emergency +39 0425/476327

2.0 COMPOSITION / INFORMATION ON INGREDIENTS

chemical characteristics

Description: Mixture of substances with harmless additions

Hazardous substances	Concentration	Classification
CAS141-78-6 ethyl acetate EINECS 205-500-4	2.5-10%	H225 – H319 – H336 – EUH066
CAS 64-17-5 ethyl alcohol EINECS: 205-578-6	25-50%	H225

3.0 HAZARDS IDENTIFICATION

Classification of dangerousness': Highly flammable (Regulation 1272/2008 / EC)

Indications of danger 'specific to humans and the environment:

H225: Highly flammable liquid and vapor.

Classification system:

The classification corresponds to the current EC lists, however, it is supplemented by information from technical literature and by information furnished by supplier companies.

4.0 FIRST AID MEASURES

Inhalation: Move to fresh air, in case of complaints seek medical advice.

Skin contact: Generally the product does not irritate the skin.

Eye contact: Wash with running water for several minutes holding eyelids well open. If symptoms persist, consult your doctor.

Ingestion: If symptoms persist consult your doctor.

5.0 FIRE FIGHTING MEASURES

Suitable extinguishing agents: CO₂, sand, dust. Do not use water.

Fire-fighting means unsuitable for safety motive: Water; Water jets.

Protective equipment: No special measures.

6.0 MEASURES IN CASE OF ACCIDENTAL RELEASE

Precautionary measures Person:

Wear protective equipment. Keep away unprotected persons.

Measures for environmental protection: Prevent seepage into sewage system, holes and cellars. Do not allow to enter drainage system / surface water / ground water.

Measures for cleaning and collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation. Do not flush with water or aqueous cleaning agents.

7.0 HANDLING AND STORAGE

Manipulation

Information for safe handling:

Ensure good ventilation / exhaustion at the work workplace. Avoid aerosol formation.

Precautions in case of fire or explosion:

Keep away from heat sources, do not smoke. Protect against electrostatic charges.

Storage

Requirements for storerooms and containers: Store in a cool location.

Further information about storage conditions: None.

Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

8.0 PERSONAL PROTECTION / EXPOSURE

Additional information about design of technical systems: No further data; see item 7.

The components with limit values that require monitoring at the workplace:

64-17-5 ethanol

TLV Long-term value: 1910 mg / m³, 1000 ppm

A4

141-78-6 ethyl acetate

TLV Long-term value: 1460 mg / m³, 400 ml / m³

Additional information: The lists valid during the making were used as basis.

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove contaminated clothing.

Wash your hands before or at the end of work.

Avoid contact with eyes. Avoid contact with eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter In case of intensive or longer exposure use self.

Protection of hands: Protective gloves.

The glove material

The selection of suitable gloves does not only depend on the material, but also on other characteristics of quality variable from one manufacturer to another. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior employment.

Penetration time of glove material

The determined penetration times according to EN 374-3 are not performed under practical conditions. For this reason it is recommended a maximum wearing time, equal to 50% of the time of passage.

Eye protection: Tightly sealed goggles

9.0 PROPERTY 'PHYSICAL AND CHEMICAL

General Information Form: Liquid

Color: various colors

Odour: Characteristic

Change in condition Melting point / Melting range: Undetermined

Boiling point / Boiling range: 76 ° C

Flash point ': -4 ° C

Ignition temperature: 180 ° C

Self-igniting: Not applicable

Explosion hazard: The product is not explosive, it is nevertheless possible formation of explosive mixtures of air / vapor.

Explosion limits: Lower: 2.1 Vol%

Upper: 15.0 Vol%

Vapour pressure at 20 ° C: 97 hPa

Density 'at 20 ° C: Not defined

Solubility in / Miscibility with water: Slightly and / or immiscible.

Solvent content Organic solvents: 60-64%

Solid content: 36-40%

10.0 STABILITY 'and Reactivity'

Thermal decomposition / conditions to be avoided:

The product does not decompose if used according to specifications.

Dangerous reactions: No dangerous reactions.

Hazardous decomposition products: No known hazardous decomposition products.

11.0 TOXICOLOGICAL INFORMATION

Toxicity acute

Primary irritant effect on the skin: No irritant effect.

Primary irritant effect on the eye: Splashes in the eyes can cause irritation and irreversible damage.

Sensitization: No sensitizing effects known.

12.0 ECOLOGICAL INFORMATION

Additional information:

Hazard class 1 (D) (Self-assessment): slightly hazardous.

Not to enter a ground water, water course or sewage system undiluted product or large quantities

13.0 DISPOSAL

Advice for the product: Must not be disposed of with household waste. Do not enter sewage system.

European Waste Catalogue

08 03 15 ink sludges other than those mentioned in 08 03 14

Tips for packaging not cleaned:

Disposal according to official regulations.

14.0 TRANSPORT INFORMATION

Road / rail transport ADR / RID (cross-border)

ADR / RID-GGVS / E Class: 3 Flammable liquids

Kemler Number: 33

UN Number: 1210

Pack Group: II

Description of goods: 1210 PRINTING INK (vapor pressure at 50 ° C less or equal to 110 kPa).

Maritime transport IMDG

IMDG Class: 3

UN Number: 1210

Label: 3

Pack Group: II

EMS Number: F-E, S-D

Marine pollutant: No

Proper shipping name: PRINTING INK

Air transport ICAO-TI and IATA-DGR:

ICAO / IATA Class 3

UN / ID Number: 1210

Label: 3

Pack Group: II

Proper shipping name: PRINTING INK

15.0 REGULATORY INFORMATION

Labelling according to EU guidelines: The product has been labeled in accordance with EU Directives / Ordinance on Hazardous Materials.

Labeling of danger 'of the product:



Hazard statements:

H225: Highly flammable liquid and vapor

Safety advice:

P210: Keep away from sources of scintille- smoking

P233: Keep container tightly closed

P243: Avoid the accumulation of electrostatic charges

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

P305: In case of contact with eyes, rinse immediately with plenty of water and consult a doctor

P501: Dispose of the product and its container as hazardous waste

National regulations

Air technical education:

Class Share in% II 1.5

Class III Share in% 53.7

Class of danger 'for water

Water hazard class 1 (WGK1) (Self-assessment): Slightly hazardous.

16.0 OTHER INFORMATION

The data are based on our present knowledge, it is intended to safe handling of the product regarding to health and environmental aspects.

Relevant H phrases:

H225: Highly flammable liquid and vapor

H302 - Harmful if swallowed.

H319 Causes serious eye irritation

EUH066 Repeated exposure may cause skin dryness or cracking

H336 may cause drowsiness and dizziness

Issuing MSDS: Product safety department.