



S.R.L.
GI - EMME

SAFETY DATA SHEET

Last revision 28.02.2020

1. IDENTIFICATION OF THE PRODUCT AND COMPANY 'PRODUCER

1.1 NAME: FLEXO GM INK

1.2 TYPE OF PRODUCT AND USE: Flexo GM Ink for PVC

1.3 SUPPLIER: Gi-emme srl Via C. Battisti, 561, 45010 Ceregnano (RO)

1.4 TELEPHONE NUMBER FOR CONSULTATION IN CASE OF EMERGENCY: 0425-476327

COMPOSITION / INFORMATION ON INGREDIENTS

2.1 Hazardous components to health under Directive 67/548 / EEC as amended or for which there are recognized exposure limits:

COMPONENTS	% WEIGHT	CAS /OEL	N° EINECS N°	ACGIH TLV/TWA	Symbol/ Frasi R
Metietilchetone (MEK)	13,6 %	78-93-3	201-159-0	590 mg/mc	H225 H319 H335
Methylisobutylketone (MIBK)	20.26 %	108-10-1	203-550-1	205 mg/mc	H225
Cyclohexanone	28.39 %	108-94-1	203-631-1	100 mg/mc	H226 H332
Toluene (Methylbenzene C7H8)	- 3.27 %	108-88-3	203-625-9	188mg/mc	H225 H315 H319 H335
Resin of vinyl chloride and vinyl acetate copolymer	9,76%	9003-22-9			

2.2 also contains pigments that do not present special risks.

3. PRECAUTIONS LISTED SULL'ETICHETTA- HAZARDS IDENTIFICATION

H225 – Highly flammable liquid and vapor

H332 – Harmful if inhaled

H315 – It causes skin irritation

H319 – It causes serious eye irritation

H335 – It can cause respiratory irritation

Do not swallow.

Do not cause vomiting.

Do not inhale.

flammable pasta

4. FIRST AID MEASURES

4.1 Skin Contact: Symptoms: Skin irritation, until dermatoses: prolonged and repeated contact of the product with the skin can cause irritation. If contact is recommended to wash

thoroughly for at least 10-15 'with soap and water, remove contaminated clothing including shoes and wash them before use. Talk to your doctor.

4.2 Eye Contact: Symptoms: mucous membrane irritation and pain in the eye: rinse thoroughly with water up to at least 15 'and up to the disappearance of burning or irritation; if the irritation does not recede consult a physician.

4.3 Ingestion: Symptoms: abdominal pain, nausea, diarrhea, signs of systemic poisoning: Accidental ingestion it is advisable to rinse mouth immediately with plenty of water without swallowing. Do not induce vomiting to avoid the risk of aspiration into the trachea. Keep the subject at rest have employed carbon adsorbent in aqueous suspension, remove the substance with gastric lavage. Call a physician and show this safety data sheet.

4.4. Inhalation: Symptoms: mental confusion, inebriation, nausea, headache, fatigue, impaired coordination, hallucinations, loss of consciousness; in severe cases perform blurred vision, tremor, shallow breathing, ventricular arrhythmia, convulsions. Turn away from the area contaminated the affected person and protect the respiratory tract, take it in a ventilated area, see a doctor immediately. If breathing has stopped, apply artificial respiration.

5. FIRE FIGHTING MEASURES

The product is flammable

5.1. Recommended extinguishers: foam and carbon dioxide chemical, avoid the use of water jets.

5.2 Risks arising from combustion: formation of combustion products in the form of fumes or vapors: it emits acrid and irritating fumes.

5.3 Auxiliary Protective equipment for fire-fighters: supplied self-contained breathing mask (respirator) and means of protection for the eyes.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal precautions: Wear gloves and protective clothing. In the presence of strong fumes, wear self-contained breathing apparatus, remove contaminated clothing. Wash thoroughly with soap and water. In case of contact with eyes, wash immediately with water.

6.2 Environmental measures: Eliminate all unguarded flames and possible sources of recognitions. Not smoking. Contente leakages with earth or sand. Prevent vapors from entering the dungeons. If the product, amount 'dangerous, contaminate soil or vegetation, notify the competent authorities. To disperse.

6.3 Measures to be taken in case of material spill or leak: Collect the product, then rinse the area and materials involved. Delivered to landfill or authorized facility also the washing liquid, according to the law on waste.

7. HANDLING AND STORAGE

7.1 Special precautions for handling and exposure: appropriate protective goggles and gloves, avoid contact and inhalation of vapors. The product must be used by skilled personnel. In the area of use it is recommended not to smoke, drink or eat. Avoid contact with eyes and skin See also paragraph 8.

7.2 Storage conditions: Keep away from open flames, sparks and heat sources.

7.3 Technical measures: Fresh and adequately aired, waterproof flooring pursuant to the storage area, take electrical safety systems. Local pursuant to flammable products ($T < 21^{\circ} C$). Any mechanical ventilation.

7.4 Incompatible materials: Do not mix with: strong oxidants on inorganic peroxides, nitric acid, sulfuric acid.

7.5 Packaging materials: metal drums, coated inside

8. CONTROLS / PERSONAL PROTECTION

8.1 Precautionary measures: the workplace must be adequately ventilated under industrial law. Equip storage areas with eyewash device.

8.2 Respiratory protection: Personal means of protection vary according to the possible exposure and danger of the conditions of lavoro. Evitare still breathing of vapors. Respiratory protection: anti-solvent mask with organic vapor filter (anti solvent activated carbon adsorbents)

Hand protection: gloves made of waterproof material to the substance (heavy rubber or neoprene).

Eye protection: glasses (if the treatment may involve splashing)
the person's clothing that provides comprehensive protection to the skin protection (neoprene boots in case of spills)

8.3 Biological Indicators: EIB (A.C.G.I.H. 1999) End of Turn Ac.Ippurico urine 1.6 g / g creatinine

9. PROPERTY 'PHYSICAL AND CHEMICAL

9.1 Appearance and color: inks of various colors

9.2 Odour: Aromatic

Boiling point: 110.6 to 10135 Pa

Flash point: > 4 ° C (closed cup)

Viscosity at 20 ° C: 40-50 sec.

Solubility in water: none

Solvent solubility: soluble in all common organic solvents

10. STABILITY AND REACTIVITY'

The product is stable under conditions of storage and use recommended.

10.1 Conditions to avoid: Avoid accumulating electrostatic charge.

10.2 Dangerous reactions: It may catch fire on contact with powerful oxidising agents.

10.3 Substances to avoid: strong oxidizing agents and strong bases and alkalis.

11. TOXICOLOGICAL INFORMATION

of entry: Ingestion - Inhalation - Contact

11.1 INFORMAZIONI TOXICOLOGICAL ESSENTIAL:

The product must be considered as having moderate acute toxicity; possible chronic effects on the nervous system to repeated inhalation.

Irritating to the skin because of the solvent on fats.

Carcinogenesis: I.A.R.C. 3: Not classifiable as to its carcinogenicity to humans

11.2 EFFECTS ON HUMANS:

Symptoms of acute overexposure:

By ingestion: possible irritation of the digestive tract, only to high amounts nausea and vomiting.

Inhalation: irritation of the respiratory tract, cough, dyspnea, pulmonary edema, systemic effects following.

Central nervous system: headache, general depression, weakness, numbness, possible memory loss and difficulty breathing. risk of respiratory paralysis.

To contact: local irritant action without major systemic effects.

Irritating Properties: Based on the comments made during normal business use, the product must be considered as having primary irritancy to the skin that is to the eye.

Skin: dermatitis for degreasing effect.

Chronic toxicity: The product has to be considered as having chronic toxicity to medium risk.

Central nervous system: headache, general depression, weakness, numbness, dizziness, drowsiness, phenomena of narcosis.

Possible neurotoxicity at high concentrations.

Reproductive effects: Not found epidemiological evidence originated. Remember the evidence emerging in animal testing

11.3 TOXICITY 'EXPERIMENTAL':

Acute toxicity (toluene): Oral / rat LD50: 5000 mg / kg -LD50 dermal / rabbit: 12124 mg / kg -LC50 inalaz / rat: 19.6 mg / l / 8h

Mutagenicity: Positive in different tests on rats and mice, different routes.

Reproductive effects: rats and mice, different routes, fetal malformations.

12. ECOLOGICAL INFORMATION

12.1 Do not discharge into the natural environment and waters. Note the effective regulations.

12.2 Persistence and degradability: B.O.D. : 5.15 (Dutch standard method of analysis); COD 0,7-1,41-1,88; Thod 3.13.

12.3 Ecotoxicità: fish LC50: 58 mg / l / 24h (Carassius Auratus); 34 mg / l Tlm / 96h (fathead minnows); 13 mg / l / 96 hours (Lepomis macrochirus)

Algae: EC50 -> 4:33 mg / l / 96 hours Selenastrum capricornutum > 400 mg / l (Scenedesmus quadricaudata)

12.4 Adopt good working practices, avoiding release of the product in the environment.

13. WASTE DISPOSAL

13.1 Recover if possible. Send to authorized disposal plants or for incineration under controlled conditions. Operate according to local and national regulations.

13.2 Disposal of contaminated packaging: Wash with solvents to be incinerated.

14. TRANSPORT INFORMATION

14.1 General information - UN-Number: 1210

14.2 International standards for road / rail transport (ADR / RID) - Class: 3

14.3 international shipping Recommendations (I.M.O.) - Classification: 3.2 - I.M.D.G. cod. pag. : 3285

14.4 Domestic aviation Recommendations, International (IATA) IATA-code: 3

15. REGULATORY INFORMATION

Classification according to Regulation (EC) No. 1272/2008 and following adjustments:

Symbols:



Hazard statements: H225 - Highly flammable liquid and vapor
H332 - Harmful if inhaled
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary Statements: P210 - Keep away from heat, hot surfaces, sparks or open flames. No smoking; P233 - Keep container tightly closed; P235 - Store in a cool place; P243 - Take precautionary measures against static discharge P262 - Avoid contact with eyes, skin or clothing; P270 - Do not eat, drink or smoke during use; P273 - Avoid release to the environment

(Classification of Law)

Presidential Decree 303/56 (Health checks): item 33 reps tabulated workings.

Presidential Decree 482/75 and succ. changes (Compulsory insurance): diseases of aromatic hydrocarbons.

Where applicable, refer to the following regulations:

Presidential Decree 547/55; Presidential Decree 175/88; Presidential Decree 203/88; D.Lvo. 277/91; D.Lvo. 626/94; D.L. 242/96.

16. FURTHER INFORMATION

The sheet has been prepared according to the D.Lgs.N.252.03 / 02/1997 and D.M. April 28, 1997 as updated by the D.Lgs.N.285 16 / 07.1998. The information contained is based on our present knowledge and refers solely to the product indicated.

It 's always the user's responsibility to comply with the hygiene and safety standards and environmental protection provided by the laws in force in relation to the specific use intended.