

MATERIAL SAFETY DATA SHEET LIQUID PREPARATION FOR : TIPP-EX® RAPID CORRECTION FLUID	Page : 1
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	Date : 29/10/2009
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : LIQUID PREPARATION FOR : TIPP-EX® RAPID CORRECTION FLUID
 Recommended uses : Correction fluid
 SUPPLIER :
 Name : SOCIETE BIC
 Address : 14, Rue Jeanne d'Asnières
 92611 CLICHY Cédex
 FRANCE
 Telephone number : + 33 01 45 19 52 00
 Telefax number : +33 01 45 19 52 99
 * E-mail : Bic.Contact@bicworld.com
 EMERGENCY TELEPHONE NUMBER : ORFILA (France) : +33 01 45 42 59 59

2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :
 Adverse human health effects : Vapours may cause drowsiness and dizziness.
 Irritating to skin
 Environmental effects : Toxic to aquatic organisms
 May cause long-term adverse effects in the aquatic environment.
 Physical and chemical hazards :
 - Fire or explosion : Highly flammable liquid
 May form flammable/explosive vapour-air mixtures
 Classification of the product : According to European regulations, this product is classified as :
 - HIGHLY FLAMMABLE
 - IRRITANT
 - DANGEROUS FOR THE ENVIRONMENT

3. COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE :
 Chemical nature : Mixture of solvents and titanium dioxide
 Hazardous constituents :

Substance name	Contents	CAS No / EC No / Index No	Symbol(s)	R-Phrase(s)
Titanium dioxide :	< 50 %	13463-67-7 / 236-675-5 / -----		
Naphtha (petroleum), hydrotreated light :	< 30 %	64742-49-0 / 265-151-9 / 649-328-00-1	F Xn N	11-38-51/53-65-67
Naphtha (petroleum), light alkylate :	< 10 %	64741-66-8 / 265-068-8 / 649-276-00-X	F Xn N	11-65-66-51/53
Solvent naphtha (petroleum), light arom. :	< 1 %	64742-95-6 / 265-199-0 / 649-356-00-4	N Xn	10-37-51/53-65-66-67

4. FIRST AID MEASURES

Inhalation : Move the affected person away from the contaminated area and into the fresh air
 If the person feels unwell :
 Call a doctor
 Skin contact : Wash immediately with plenty of soap and water
 In case of redness or irritation, consult a doctor
 Eye contact : Immediately rinse with water for a prolonged period while holding the eyes wide open
 If irritation persists, consult an eye specialist
 Ingestion : Never attempt to induce vomiting

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4. FIRST AID MEASURES (continued)

Consult a doctor

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :	Foam Powders Carbon dioxide (CO2)
Specific hazards :	The vapours are heavier than air and may travel along the ground. Distance ignition possible. On heating or during combustion : Toxic vapors may be released
Specific fire fighting methods :	Clear the danger area Cool down the containers/equipment exposed to heat with a water spray Contain the extinguishing fluids by bunding (the product is hazardous for the environment) Do not attempt to fight the fire without suitable protective equipment
Protection of fire-fighters :	Self-contained breathing apparatus Standard protection

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :	Avoid contact with skin and eyes Do not breathe vapours No flames, no sparks. Eliminate all sources of ignition. Do not smoke Protective equipment : - full protective clothing and equipment - respiratory protective device In case of important spillage : Mark out the contaminated area with signs and prevent access to unauthorized personnel Stop the leak as quickly as possible (using non-sparking tools) Prevent the product from entering drains (risk of explosion) Ventilate spillage area
Environmental precautions :	Contain the spilled material by bunding (product is hazardous for the environment) Do not discharge into drains and rivers
Methods for cleaning up :	
- Recovery :	Recover the product by mechanical means.
- Neutralization :	Absorb non-recoverable liquid with: - inert absorbent material - earth or sand
- Disposal :	Dispose of contaminated materials in accordance with current regulations

7. HANDLING AND STORAGE

HANDLING	
Technical measures :	Vapour extraction at source Use NON-sparking tools
Precautions :	Avoid contact with skin and eyes. Avoid the build-up of electrostatic charge Smoking is forbidden Do not overheat the product.
STORAGE	
Technical measures :	The floor of the depot must be impermeable, non-combustible and designed to form a basin, in order that stored flammable liquids should not, under any circumstances, be released outside

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7. HANDLING AND STORAGE (continued)

Storage conditions :

- Recommended :

Store :

- in a cool and dry area
- in a well-ventilated area
- the container tightly closed
- away from any source of ignition
- away from heat
- away from any flames

Incompatible materials :

Strong oxidizing agents
Oxidizing materials

Packaging materials :

- Recommended :

Original packaging

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures :

Ensure good ventilation of the work station
Extraction to remove vapours at their source

Occupational exposure limits :

- France :

Titanium dioxide :
VME : 10 mg/m³ (Ti)
Hydrocarbons C6 - C12 :
VME : 1000 mg/m³
VLE : 1500 mg/m³

Personal protective equipment :

- Respiratory protection :

If vapour is released:
Aerosol filter type A

- Hand protection :

Impermeable protective gloves
The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374
Breakthrough time : refer to the recommendations of the supplier

- Eye protection :

Safety goggles

Hygiene measures :

Do not drink, eat or smoke in the workplace
Always wash your hands after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state :

Liquid

Colour :

white

Odour :

solvent.

pH :

Not applicable

Specific temperatures :

- Boiling :

95-114 °C (760 mmHg)

Flammability characteristics :

* - Flash point :

-9.0 °C (NF EN ISO 13736)

Explosive limits in air :

- Lower :

1.7 % (volume)

- Upper :

12.3 % (volume)

Vapour pressure :

26-49 mmHg (20 °C)

Specific gravity :

1.25 g/cm³ (25 °C)

Solubility :

- in water :

Practically insoluble. (0.1 g/l)

Kinematic viscosity :

> 60 mm²/s (40 °C)

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Volatile component : 0.89 - 1.08 %

10. STABILITY AND REACTIVITY

Stability : Stable at ambient temperature and under normal conditions of use

Hazardous reactions :

- Conditions to avoid : Heat, sparks, open flames, ignition source

- Materials to avoid :
- strong oxidizing agents
- strong reducing agents

- Hazardous decomposition products : On combustion or on thermal decomposition (pyrolysis) releases :
Carbon oxides (CO, CO₂)
Various hydrocarbon fragments

11. TOXICOLOGICAL INFORMATION

* Acute toxicity : Vapours may cause drowsiness and dizziness
Naphtha (petroleum), light alkylate :
LC 50 inhalation / 4h (rat) : > 5.04 ppm
LD 50 oral (rat) : > 7000 mg/kg
LD 50 skin (Rabbit) : > 2000 mg/kg
Naphtha (petroleum), hydrotreated light :
LC 50 inhalation / 6h (rat) : > 12 mg/l
LD 50 oral (rat) : > 5000 mg/kg
LD 50 skin (Rabbit) : 3160 mg/kg
Titanium dioxide :
LC 50 inhalation / 4h (rat) : > 3.56 mg/l
LD 50 oral (Rat) : > 10000 mg/kg
LD 50 skin (Rabbit) : > 10000 mg/kg
(published data)

Local effects : Irritating to the skin

Specific effects :

- Carcinogenicity : Titanium dioxide (powder) is listed as being potentially carcinogenic (group 2B) by the CIRC, based on studies on animals
However, studies on human epidemiology do not suggest links between the occupational exposure to titanium dioxide and the risk of cancer

12. ECOLOGICAL INFORMATION

ECOTOXICITY :

Effects on the aquatic environment : Toxic to aquatic organisms
May cause long-term adverse effects in the aquatic environment.
Naphtha (petroleum), light alkylate :
LC 50 (Fish : Pimephales promelas) / 96 h : 8.3 mg/l
Naphtha (petroleum), hydrotreated light :
EC 50 (crustacean) / 96 h : 2.6 mg/l
(published data)

13. DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT :

Prohibition : Discharging waste into rivers and drains is prohibited

Destruction/Disposal : Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING :

Destruction/disposal : Destroy at an authorised site

NOTE : The user's attention is drawn to the possible existence of specific european,

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13. DISPOSAL CONSIDERATIONS (continued)

national or local regulations regarding disposal

14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS :

- * - UN No. 1139 COATING SOLUTION (Naphtha (petroleum), light alkylate & Naphtha (petroleum), hydrotreated light)
 - Land transportation :
 - * - Rail/road (RID/ADR) :
 - Class : 3
 - Classification code : F1
 - Packing group : II
 - Hazard identification number : 33
 - Labelling : 3
 - Additional marking : "Environmentally hazardous substance"
 - * Sea (IMO/IMDG) :
 - Class : 3
 - Packing group : II
 - Emergency schedule (EmS) : F-E, S-E
 - Marine pollutant : YES
 - Labelling : 3
 - Additional marking : "Environmentally hazardous substance"
 - * Air (ICAO-IATA) :
 - Class : 3
 - Packing group : II
 - Labelling : Flammable liquid
 - Additional marking : "Environmentally hazardous substance"
- NOTE :
The above regulatory prescriptions are those valid on the date of publication of this sheet
Given the possible evolution of transport regulations for hazardous materials, in case the date of issue is older than 12 months, compared to the current one, it would be advisable to check their validity with your commercial agency
Packages from older stocks can especially have the UN number 1993 (due to the older classification)

15. REGULATORY INFORMATION

EC LABELLING :

- Symbols and indications of danger :



- HIGHLY FLAMMABLE (F)
- IRRITANT (Xi)
- DANGEROUS FOR THE ENVIRONMENT (N)

- R phrases :

- R11 : Highly flammable.
- R38 : Irritating to skin.
- R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R67 : Vapours may cause drowsiness and dizziness.

- S phrases :

- S2 : Keep out of the reach of children.
- S16 : Keep away from sources of ignition - No smoking.
- S24 : Avoid contact with skin.
- S29 : Do not empty into drains.
- S46 : If swallowed seek medical advice immediately and show this container or label.
- S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

- Further data :

Reduced labelling allowed for small packaging (< 125 ml)

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15. REGULATORY INFORMATION (continued)

FURTHER REGULATIONS :

National prescriptions :

France : Occupational diseases (table(s) n° 84)

The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable international, national and local regulations or provisions.

16. OTHER INFORMATION

R phrases text of § 3 :

R10 : Flammable.
R11 : Highly flammable.
R37 : Irritating to respiratory system.
R38 : Irritating to skin.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 : Harmful : may cause lung damage if swallowed.
R66 : Repeated exposure may cause skin dryness or cracking.
R67 : Vapours may cause drowsiness and dizziness.

Restrictions on use :

This product must not be used for other applications that mentioned in §1.

Bibliography references :

Joint Research Centre (JRC)
INRS (Institut National de Recherche et de Sécurité)
IUCILID (International Uniform Chemical Information Data Base)
RTECS (Registry of Toxic effects of Chemical Substances)
MSDS of suppliers

* Update :

This sheet was updated (refer to the date at the top of this page)
Texts which have been modified since the previous version are marked with an asterisk (*)

Safety data sheet established by :

LISAM SERVICES - TELEGIS
6 rue des Boucheries F-60400 NOYON
www.reachelp.com
Safety Made Easy with www.lisam.com

This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.

Besides, the attention of the user is drawn to the possible risk incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentioned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

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