

Material-Safety-Data-Sheet

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1. Identification of the preparation and manufacturer

Product name: **Special Ink TES-SW 040**

Company:

**REA Kennzeichnung und Codierung GmbH
Brönnighauser Str. 32
D – 33729 Bielefeld
Federal Republic of Germany**

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2. Composition / information on ingredient

Ethylalcohol CAS 64-17-5 (45-60 %) – Isopropylalcohol CAS 67-63-0 (30-40 %) - synthetic resin - binding agents – pigments - additive - mixture

3. Hazard identification

Hazard designation : F flammable liquid

Information pertaining to particular danger for man and environment: F flammable liquid

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4. First aid measures

General :	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.
Skin contact:	Remove contaminated clothing. Wash skin thorough with soap and water or use recognised skin cleanser. Do not use solvents or thinners.
Eye contact:	Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
Ingestion:	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5. Fire-fighting-measures

Extinguishing media

recommended :	alcohol resistant foam, CO 2, powders, water spray
not to be used :	strong waterjet

Recommendations

Fire will produce dense black smoke. Exposure to decomposition product may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire water. Do not allow run off from fire fighting to enter drains or water courses.

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6. Accidental release measures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in section 7 and 8. Contain and collect spillage with non-combustible absorbent materials e.g. sand, earth vermiculite, diatomaceous earth and place in container for disposal according local regulations. Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers or sewage's, inform appropriate authorities in according local regulations.

7. Handling and storage

Handling :

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

Additionally, the product should only be used in areas from which all naked light and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Isolate from sources of heat, sparks and open flame. No sparking tools should be used.

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in application area. For personal protection see section 8.

Never use pressure to empty - container is not a pressure vessel. Always keep in containers of same materials as t original one. Comply with the health and safety at work laws.

Storage:

Storage in accordance with the local laws. Observe label precautions. Store in a cold and dry, well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition. Keep away from oxidising agents, from strongly alkaline and strongly acid materials. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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8. Exposure controls / personal protection

Engineering measures

Provide adequate ventilation. Where reasonable practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (occupational exposure limit), suitable respiratory protection must be worn.

Occupational exposure limit:

Ethylalcohol

OEL-value 1900 mg/m³

Isopropylalcohol

OEL-value 500 mg/m³

Personal protection:

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

For prolonged and repeated contact use: solvent resistant glove

Eye protection

Use safety eyewear designed to protect against splash of liquids.

Skin protection

Personal should wear antistatic clothing made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

9. Physical and chemical properties

Physical state	: liquid	
Smell	: mild alcoholic smell	
Colour	: diverse	
Viscosity	: 10 - 12 sec. DIN 4 cup	
Density	: 0,82	
Flash point	: 14°	
Steam pressure	: 60 hPa	from bibliography
Ignition point	: 425°	from bibliography
Critical values for explosion	:	
lower	: 3,5 Vol.%	from bibliography
upper	: 15,0 Vol.%	from bibliography
Solubility in water	: solvent mixable with water	

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10. Stability and reactivity

Stable under recommend storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition product such as carbon monoxid and dioxide, smoke, oxide of nitrogen. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

11. Toxicological information

There are no data available on the preparation itself. Exposure to component solvents vapour concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and extreme cases, loss of consciousness. Repeat or prolonged contact with the preparation may cause removal of absorption through the skin. The liquid splashed in the eyes may cause irritation and irreversible damage.

12. Ecological information

There are no data available on the preparation itself.
The product should not allowed to enter drains, lakes, rivers ...
Water dangerous class : 1

13. Disposal considerations

Do not allow into drains, lakes, rivers ...
Waste and emptied containers should be dispose by local regulations.

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14. Transport information

Transport only in accordance with ADR for road, RID for rail, IMDG for sea, ICAO / IATA for air transport

ADR / RID

UN 1263 paint 3, II, ADR vapour pressure at 50° C not more than 110 kPh

IMDG

Class 3
EmS No. F-E, S-E
UN No. 1263
Packing group II
Proper shipping name paint

ICAO / IATA

Class 3
UN No. 1263
Packing group II
Proper shipping name paint

15. Regulatory information

In accordance with German
Gefahrstoffverordnung.

The product is labelled as
follows

F flammable liquid

Danger classification:

contains:

R- phrases: 11 highly flammable

S- phrases: 7 keep container tightly close
9 keep container in a well ventilated place
16 keep away from sources of ignition - no smoking -
23 do not breath vapour
33 take precautionary measures against static discharges
51 use in a good ventilated area

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16. Other information

The information of this MSDS is based on the present state of our knowledge and on current EEC and national laws, as users working conditions are beyond our knowledge and control. The product is not to be used for other purpose than those are specified. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this MSDS is meant as a description of the safety requirements of our product: it is not considered as a guarantee of the products properties. Not authorized passing on is prohibited.