

CM0110 – Dyne Pen
SDS 6/1/2015

TO OUR CUSTOMERS:

RE: Safety Data Sheets

Attached is a Safety Data Sheet (SDS) that was prepared by the manufacturer of the material for your use in accordance with the Federal Hazard Communication Standard, 29 CFR 1910.1200. It is important that you provide the information in the attached SDS to your employees who may come in contact with this material in their work area as required under 29 CFR 1910.1200.

The information contained in this SDS is to be used only for employee health and safety education purposes. The SDS must not be used for material specification purposes.

Please call upon us if we can be of further assistance.

IMPORTANT

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- Corona Treating
- Induction Cap Sealing

Equipment & Systems

Safety data sheet

Article description: Test Ink, non toxic, 28 - 72 mN/m According to REACH Directive 1907/2006/EC and 453/2010/EC Date of issue: 05-20-2015, Version 1.0

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name: Test Ink and Test Pens 28 – 72 mN/m, chemical preparation

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Solvent mixture for surface tension measuring

Uses advised against

None known

Details of the supplier of the safety data sheet

Enercon Industries Corporation

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Menomonee Falls, WI 53051

(P.O. Box 773, 53052-0773)

(262) 255-6070

website: www.enerconind.com

email: info@enerconind.com

Emergency telephone

In cases of severe exposure, contact the nearest medical facility.

SECTION 2. Hazards identification

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not applicable. Not a dangerous substance according to GHS.

Label elements

Labeling (REGULATION (EC) No 1272/2008): Not applicable.

Miscellaneous

The red dyed ink does not contain any harmful materials according to European Union legislation. The blue and green dyed ink contains no harmful materials above the limits of labeling requirements according to EU-legislation.

Other hazards

This substance is not identified as a PBT or vPvB substance.

Hazardous properties cannot be excluded in principle, but are not expected. The product should be handled with the due care when dealing with chemicals.

SECTION 3. Composition/information on ingredients

Substance

This product is a mixture.

Mixture

Solvent mixture for surface measurement containing the following functional groups: alcohol, glycol ether, carboxyl, amide and water in different proportions, ~ 0.1 % coloring material.

SECTION 4. First aid measures

Description of first aid measures

General information: Immediately remove all contaminated clothing. If health disorders occur, seek the advice of a physician.

After inhalation: as aerosol: fresh air and be sure call for a doctor.

After skin contact: wash off with plenty of water, remove contaminated clothing.

After eye contact: rinse out with plenty of water for at least 10 minutes with the eyelid held wide open, summon eye specialist.

After swallowing: Rinse out mouth and then make victim drink plenty of water (max. 2 drinking glasses (tumblers)), summon doctor.

Most important symptoms and effects, both acute and delayed

See Section 1.

Indication of any immediate medical attention and special treatment needed.

In case of unconsciousness, call emergency physician.

SECTION 5. Firefighting measures

Extinguishing media

Suitable extinguishing media: Water, Carbon dioxide (CO₂), Foam, Dry powder, Water-spray.

Unsuitable extinguishing media: Water with full jet.

Special hazards arising from the substance or mixture

Combustion products: Carbon monoxide, carbon oxide, nitrogen oxides, acrolein (propenal)

Combustible Vapours are heavier than air and may spread along floors. Possibility of formation of explosive mixtures with air on intense heating.

Advice for firefighters

Special protective equipment for firefighters: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information: Cool closed containers exposed to fire with water spray. Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see Section 8.

Environmental precautions

Do not empty into drains.

Methods and materials for containment and cleaning up

Bind small amounts (appr. 50 ml) with a rag or a (paper) towel. Take up bigger amounts with liquid-absorbent material (e.g. Chemisorb® or Vermiculite®). Dispose properly. Clean up affected area.

Reference to other sections

For safety measures observe Section 7, 8, and 13. Indications about waste treatment see Section 13.

SECTION 7. Handling and storage

Precautions for safe handling

Do not leave containers open. Avoid contact with eyes and skin.

Information about fire - and explosion protection:

Keep away from heat, sparks and fire. Avoid contact with oxidizing agents.

Conditions for safe storage, including any incompatibilities

Protect from heat and direct sunlight. Tightly closed. Store at +15°C to +25°C.

Store in a place with solvent-resistant floor or no a collecting tray, so that in case of leaking the protection of groundwater is given.

Specific end uses

Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

Control parameters

The mixture does not contain substances with threshold limit value.

Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See Section 7.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on the concentrations and quantities or the hazardous substances handled. The chemical resistance of the protective equipment should enquire at the respective supplier.

Hygiene measures

Change contaminated clothing. Preventive skin protection (protective cream) is recommended. Wash hand and face after working with substance.

Eye/face protection

Safety glasses with side shields

Hand protection

Inks in bottles required, inks in pens not required

The protective gloves to be used must comply with the specifications of the EC Directive 89/686/EEC and the related standard EN374.

Respiratory protection

Required when vapours/aerosols are generated. Recommended Filter type: Filter A-(P2)

Other protective measures

Protective clothing while handling larger amounts

Environmental exposure controls

Do not empty into drains.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form:	liquid
Color:	red, green, blue or uncolored
Odor:	non specific, relatively odorless
pH-value at 100 g/l H ₂ O (20° C)	6-9
Melting temperature	~ 12° C
Boiling temperature	> 100° C
Ignition temperature	> 200° C
Flash point	> 80° C
Explosion limits	not available
Vapor pressure (20° C)	~ 20 hPa
Relative vapor density	not available
Density	~ 1 g/cm ³
Solubility in water (20° C)	very well soluble

Other data

Void

SECTION 10. Stability and reactivity

Reactivity Forms

See *Possibility of hazardous reactions*

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature), hygroscopic.

Possibility of hazardous reactions

When used as intended no hazardous reactions are expected. On intense heating the formation of explosive mixtures with air is possible.

Conditions to avoid

Strong heating.

Incompatible materials

None known

Hazardous decomposition products

In the event of fire, see Section 5.

SECTION 11. Toxicological information

Properties that are anticipated based on the components of the preparation:

Information on toxicological effects

Acute toxicity

LD50 (oral, rat): > 5000 mg/kg (Not containing any substance with unknown toxicity)

LD50 (dermal, rabbit): > 5000 mg/kg (One Substance with unknown LD50, but with proven LD0 (No animal died) by application of 2000 mg/kg. In this calculation the LD50 was estimated to be 3500 mg/kg. All other substances with LD50)

Irritation

Skin irritation rabbit Result: slight irritations.

Eye irritation rabbit Result: slight irritations.

Sensitisation

Negative; Patch test: (human and guinea pig, every substance)

Genotoxicity

Negative, Ames test/OECD 471 – every substance

No component of this product present in a concentration equal to or greater than 0.1 % is identified by IARC as probable, possible or confirmed carcinogen for humans.

Additional toxicological information

After inhalation: Slight irritations of: respiratory tract, lungs

Slight irritations of: skin, mucous membranes

After absorption of large quantities: narcosis, vomiting, gastric pain, headache, drowsiness, diarrhea, cyanosis

Danger of skin absorption

Further information

Handled and used with due care the product does not cause any hazardous effects according to the available information. The substance is not subject to classification according to EU Directives. No labeling requirements according to EU-Legislative.

Hazardous properties cannot be excluded in principle, but are not expected. The product should be handled with the due care when dealing with chemicals.

SECTION 12. Ecological information

Properties that must be anticipated due to the components of the preparation

Toxicity

Toxicity to fish: LC50 > 5.000 mg/l; (Carassius auratus, Danio rerio respectively Pimephales promelas)

Toxicity to daphnia: EC50 > 800 mg/l Daphnia magna (Water flea):

Persistence and degradability

Readily biodegradable

Bioaccumulative potential

Log P(o/w): ~ 1 (calculated). No appreciable bioaccumulation potential is to be expected (log P(o/w) 1-3).

Mobility in soil

No information available.

Results of PBT and vPvB

According to the information available, the criteria for classification as PBT or vPvB are not met.

Other adverse effects

No information available.

Additional ecological information

Discharge into the environment must be avoided. No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13. Disposal considerations

Waste treatment methods

Residues must be disposed under consideration of the Waste Directive 2008/98/EC as well as national and local regulations. Leave chemical in original containers. Treat uncleaned containers like the product itself.

Please check at your disposal company regarding the return of chemicals and containers.

SECTION 14. Transport information Land transport (ADR/RID) 14.1 - 14.6

14.1 - 14.6 Not classified as hazardous in terms of the transport regulations. (ADR/RID, IATA, IMDG)

SECTION 15. Regulatory information

Safety, health, and environment regulations/legislation specific for the substance or mixture

EU regulations

Major Accident Hazard Legislation 96/82/EC Directive 96/82/EC does not apply

German regulations

Water pollution class 1 (slightly polluting substance) (own classification)

Storage class VCI 10

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Further information

Only for industrial and research use.

Date of issue: 05-20-2015

Reason for alteration: General update, revocation of the passages respectively to 67/548/EEC

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee for any properties of the product.