

Material Safety Data Sheet

DRY ZETA

according to no.2001/58 Directive and following adjustments

Revision no.2 dated 19/02/2004

1. PRODUCT IDENTIFICATION AND COMPANY NAME

Trade name: DRY ZETA
Product code: NSZ1-2
Description and use of the product: Spotting and degreasing agent for textiles and solvents.

Supplier:

G.B.M. Elettrochimica S.R.L. Via Fiumicino S.Mauro 120/130 - 47039 SAVIGNANO SUL RUBICONE (FC) ITALIA Phone +39 0541/930058 - Fax +39 0541/810218

Emergency phone number / responsible official body

G.B.M. Elettrochimica S.R.L. - Phone +39 541 930058 gbm@gbmprodottichimici.it

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition of the product: Mix of hydrocarbons and alcohols.

Hazardous components according to the 67/548/EEC directive and following adjustments or components which can have overexposure effects:

Quantity	Ingredient	CAS-No.	EINECS-No.	N.67/548/CE E	Symbol	R-phrases
15% - 30%	Hydrotreated heavy naphtha (petroleum)	64742-48-9	265-150-3	649-327-00-6	Xn	R66-R65-R10
15% - 30%	Alkyl phenol polyglycol ether	37205-87-1	-		Xi	R36/38-R53
15% - 30%	propan-2-ol	67-63-0	200-661-7	603-117-00-0	F, Xi	R11-R36-R67
5% - 15%	1,2-Dichloropropane	78-87-5	201-152-2	602-020-00-0	F, Xn	R11-R20/22
5% - 15%	2-butoxyethanol	111-76-2	203-905-0	603-014-00-0	Xn	R20/21/22-R36/38
5% - 15%	Toluene	108-88-3	203-625-9	601-021-00-3	F, Xn	R11-R20
2% - 5%	2-methylpropan-1-ol; isobutanol	78-83-1	201-148-0	603-108-00-1	Xi	R10-R37/38-R41-R67
2% - 5%	Dipropylene glycol monomethyl ether	34590-94-8	252-104-2			
0.1% - 2%	Methyl acetate	79-20-9	201-185-2	607-021-00-X	F; Xi	R11-R36-R66-R67
0.1% - 2%	Propanone (acetone)	67-64-1	200-662-2	606-001-00-8	F; Xi	R11-R36-R66-R67

Please refer to paragraph 16 (other information) for the explication of R-phrases

3. HAZARDS IDENTIFICATION

Classification of the preparation:

The preparation is classified as:



Xn - HARMFUL

Physical-chemical hazards:

The product is a liquid that can catch fire at temperatures in excess of + 21°C if exposed to an ignition source.

Potential health effects:

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The product is harmful: may cause serious damages to the lungs in case of ingestion

The product is harmful by acute exposure and presents serious health hazards in case of inhalation, ingestion and contact to skin.

The direct contact to eyes causes irritations that can last more than 24 hours. The direct contact to skin causes serious inflammations, with erythemas or oedemas.

Potential environment effects:

No specific hazard known by normal use.

4. FIRST AID MEASURES

General indication:

In case of doubt or if symptoms occur, get immediate medical attention and provide the material safety data sheet of the preparation.

Never give anything by mouth to an unconscious person.

Skin contact:

Remove contaminated clothing and wash immediately skin with plenty of running water and eventually soap.

Eye contact:

Flush immediately eyes with plenty of running water for at least 10 minutes, lifting lower and upper eyelids occasionally; then protect the eyes with dry sterile gauze or a clean handkerchief. GET MEDICAL ATTENTION IMMEDIATELY. Do not use eyewashes nor ointments without medical advice.

Ingestion:

Do not induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. Vaseline oil can be administered; never give milk nor animal or vegetable fats.

Inhalation:

Air the room. Remove to fresh air and keep at rest. SEEK MEDICAL ADVICE.

5. FIRE FIGHTING MEASURES

In the event of a fire follow the instructions below:

Recommended fire extinguishing media:

Water spray, foam, carbon dioxide (CO₂), chemical powders according to the materials involved in the fire.

Contraindicated fire extinguishing media:

None in particular.

Combustion hazard:

Do not breathe fumes.

Protective devices:

Use appropriate protective devices for the respiratory tract.

6. ACCIDENTAL RELEASE MEASURES

Individual precautions:

Wear appropriated gloves and personal protective clothing.

Environment precautions:

Contain and absorb leaks with inert material such as dry sand and earth. Avoid open flames and all sources of ignition. Do not smoke.

Do not flush to sewer. Report spills and releases to soil and water in excess of reportable quantities to the responsible authorities.

Cleaning methods:

Wear personal protective equipment and full face-piece respirator and recover immediately the product. In the event of a liquid product, do not flush to sewer.

Recover the product for recycling, if possible, or dispose of it. Absorb the product with inert material, then clean the surface and the materials involved thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Handling precautions:

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Wear appropriated personal protective devices (see paragraph 8). Avoid direct contact and inhalation of vapours. Do not drink or eat in workplace. Do not smoke in workplace.

Storage:

Keep the product in original tightly closed containers. Store separate from open flames, sparks and sources of heat. Keep out of direct sunlight. stored in a cool, dry ventilated area.

Incompatibilities:

None in particular. See also paragraph 10.

Particular uses:

For particular uses contact our technical division.

8. PERSONAL PROTECTION / EXPOSURE CONTROL

Exposure limits of the components:

propan-2-ol

TLV TWA: 400 ppm - 983 mg/m³

TLV STEL: 500 ppm - 1230 mg/m³

1,2-Dichloropropane

TLV TWA: 75 ppm, A4 - 347 mg/m³, A4

TLV STEL: 110 ppm, A4 - 508 mg/m³, A4

2-butoxiethanol

TLV TWA: 25 ppm - 121 mg/m³ skin

Toluene

TLV TWA: 50 ppm, A4 - 188 mg/m³, A4 skin

2-methylpropan-1-ol; isobutanol

TLV TWA: 50 ppm - 152 mg/m³

Dipropylene glycol monomethyl ether

TLV TWA: 100 ppm 8 hours

TLV STEL: 150 ppm (skin)

Methyl acetate

TLV TWA: 200 ppm - 606 mg/m³

TLV STEL: 250 ppm - 757 mg/m³

Propanone (acetone)

TLV TWA: 500ppm, A4 - 1188mg/m³ A4

TLV STEL: 750ppm, A4 - 1782mg/m³, A4

General precautions:

Use good general ventilation by the storage and/or handling of the product.

Personal respirators:

Wear a supplied air, full face-piece respirator (mask filter cartridge).

Hand protection:

Wear chemical-resistant protective gloves.

Eye protection:

Use safety glasses.

Skin protection:

Wear impervious protective clothing to prevent skin contact.

Workers handling with this preparation are not subject to periodic medical examination if the results of hazards evaluation show only a very low hazard for their safety and health and if the measures stated in D.Lgs no. 25 dated 02/02/02 are sufficient to reduce the hazard.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	liquid
Colour:	colourless
Odour:	specific to acetates
PH:	not applicable
Boiling point:	> 80°C
Melting point:	not applicable
Flash point:	21°C – 55°C
Auto ignition:	not determined
Explosion properties:	not determined
Combustion properties:	Absent
Vapour pressure:	not determined
Specific gravity:	850 - 900 g/l at 20°C

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Solubility in water:	not soluble
Fat solubility:	complete
Partition coefficient (octanol/water) :	no information found
Vapour density:	no information found

10. STABILITY AND REACTIVITY

Stable under ordinary conditions of use and storage.

Conditions to avoid:

None in particular.

Incompatibilities:

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products:

May catch fire on contact with oxidising mineral acids.

11. TOXICOLOGICAL INFORMATION

The toxicological properties of the preparation have not been thoroughly investigated. The toxicological data available on the chronic effects of the single ingredients are provided below:

Toxicological information on the main ingredients of the composition:

Alkyl phenol polyglycol ether

LD50 (rat) oral: > 1000 - 2.000 mg/Kg

propan-2-ol

LD50 ORAL: > 2000 mg/Kg

LD50 SKIN: > 2000 mg/Kg

LD50 INHALATION > 5 mg/L

1,2-Dichloropropane

LD50 (RABBIT) SKIN: 8750 mg/Kg

2-butoxyethanol

LD50 (RAT) ORAL: 560 mg/Kg

LD50 (RAT) ORAL: 1200 mg/Kg

LD50 (RABBIT) ORAL: 320 mg/Kg

LC50 (RAT) INHALATION 4 HOURS: 2400 mg/L

LC50 (RAT) INHALATION 4 HOURS: 3.36 mg/L

LD50 (RABBIT) SKIN: 1800 mg/Kg

Toluene

LD50 (RABBIT) SKIN: 14 g/Kg (14000 mg/Kg)

LD50 (RAT) YOUNG ADULTS ORAL: 5542 mg/Kg BW

2-methylpropan-1-ol; isobutanol

LD50 (RAT) ORAL: 2460 mg/Kg

Dipropylene glycol monomethyl ether

LD50 (RAT) ORAL: 5130 mg/Kg

LD50 (RABBIT) SKIN: > 19000 mg/Kg

Methyl acetate

LD50 (RABBIT) ORAL: 3705 mg/Kg

Propanone (acetone)

LD50 (RABBIT) ORAL: 5300 mg/Kg

Main hazards after exposure:

Skin contact:

Prolonged exposure causes skin irritations.

Eye contact:

Causes eye irritations.

Ingestion:

Harmful if swallowed.

Inhalation:

Low hazard of inhalation.

12. ECOLOGICAL INFORMATION

General ecological information:

Avoid release to the environment. Use the preparation for the indicated purposes.

Hazardous components to the environment and relative classification:

15% - 30% Alkyl phenol polyglycol ether

CAS: 37205-87-1

R53 May cause long-term adverse effects in the aquatic environment

LC50 96 h Brachydanio rerio: 7,1 mg/l

EC50 48 h Daphnia: 15 mg/l

IC50 72 h Scenedesmus subspicatus: 30 mg/l

EC10 16 h Pseudomonas putida: > 10 g/l

LC50 14 days Eisenia foetida foetida: > 1000 mg/kg

13. DISPOSAL CONSIDERATIONS

Save for recovery, if possible. Send the preparation to approved incinerators or disposal installations. Act in accordance with local and state disposal regulations.

14. TRANSPORT INFORMATION

Road (ADR) - Railway (RID)

UN/NA: 3295

Hazard Class: 3

Packing group: III

Proper Shipping Name: HYDROCARBONS, LIQUID N.O.S. (aliphatic hydrocarbons, cycloparaffins)

15. REGULATORY INFORMATION

Labelling according to the 67/548/EEC and 1999/45/EC directives (XXIX adjustment) and following adjustments.

Reference to the Italian rules:

D.Lgs. 14/03/2003 no.65 (classification and Labelling)and following adjustments.

Symbol:

Xn



HARMFUL

It contains:

Hydrotreated heavy naphtha (petroleum)

Specific risks (R-phrases):

R10 Flammable

R65 Harmful: May cause serious damages to the lungs in case of ingestion

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

Safety phrases (S-phrases):

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S43 In case of fire, use water.

S62 If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

S25 Avoid contact to eyes.

S36/37 Wear suitable protective clothing and gloves.

S7 Keep container tightly closed.

16. OTHER INFORMATION

This MSDS has been prepared according to the 91/155/EC directive, than modified by the 93/112/EC and 2001/58/EC Directives.

Main bibliographical sources:

ACGIH - Treshold Limit Values - 1997 edition

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities

SAX Dangerous Properties of Industrial Materials – 8Ed. - Van Nostrand Reinold

Risk phrases (R) listed in paragraph 2:

R66 Repeated exposure may cause skin dryness or cracking.

R65 Harmful: May cause serious damages to the lungs in case of ingestion

R10 Flammable

R36/38 Irritating to eyes and skin.

R53 May cause long-term adverse effects in the aquatic environment.

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness

R20/22 Harmful by inhalation and if swallowed.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R20 Harmful by inhalation.

R37/38 Irritating to respiratory system and skin

R41 Risk of serious damage to eyes.

Disclaimer: The information contained is provided herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

This version amends the previous version.