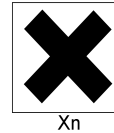




Safety Data Sheet

D10 DILUENTE UNIVERSALE NORMALE



Safety Data Sheet dated 27/3/2008, version 6

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: D10 Diluente Universale Normale

Trade code: D10

Product type and use: Thinner

Company:

Ind. Chimica Reggiana spa Via Gasparini, 7 42100 Reggio Emilia ITALY

Tel. +39 0522-517803 Fax +39 0522-514384

Safety data office:

sdsre@icrsprint.it

Emergency telephone number of the company and/or of an authorised advisory centre:

Industria Chimica Reggiana - Tel. +39-0522-514803

2. HAZARDS IDENTIFICATION

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

If brought into contact with the eyes, the product causes considerable irritation that may last for over 24 hours, and if inhaled, it can cause irritation to the airways.

The product is harmful: may cause lung damage if swallowed.

Repeated exposure to the product may cause skin dryness or cracking.

Vapours of the product may cause drowsiness and dizziness.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

50% - 60% n-butyl acetate

N.67/548/CEE: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1

R10-66-67; substance with a Community workplace exposure limit

20% - 25% Solvent naphtha (petroleum), light aromatic

N.67/548/CEE: 649-356-00-4 CAS: 64742-95-6 EC: 265-199-0

Xn, Xi, N; R10-37-51-53-65 Note P

15% - 20% 2-methoxy-1-methylethyl acetate

N.67/548/CEE: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9

Xi; R10-36

10% - 12.5% 4-methylpentan-2-one

N.67/548/CEE: 606-004-00-4 CAS: 108-10-1 EC: 203-550-1

F, Xn, Xi; R11-20-36/37-66

4. FIRST AID MEASURES

Contact with skin:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief.

OBTAIN A MEDICAL EXAMINATION.

Swallowing:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

A suspension of activated charcoal in water, or liquid paraffin may be administered.



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Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

CO₂ or dry chemical fire extinguishers.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

Avoid inhaling the fumes.

Protective equipment:

Use protection for the respiratory tract.

Cool the containers exposed to the fire with water.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Do not smoke while working.

Incompatible materials:

None in particular.

Storage conditions:

Keep away from unguarded flame, sparks, and heat sources.

Avoid direct exposure to sunlight.

Instructions as regards storage premises:

Cool and adequately ventilated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Protection for hands:

Use protective gloves that provides comprehensive protection, EN374 Class 3 ((B-F-I). E.g. neoprene or nitrile.

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.



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Exposure limit(s) (ACGIH):

Name	TLV - TWA	TLV - STEL
n-butyl acetate	100 ppm	150 ppm
2-methoxy-1-methylethyl acetate	100 ppm, 369mg/m ³	150ppm, 553mg/m ³
4-methylpentan-2-one	50 ppm	75 ppm, 307mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Transparent liquid
 Odour: Typical of solvent
 Flash point: 23°C
 Relative density: 0.85
 Solubility in water: Insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid:
 Stable under normal conditions.
 Substances to avoid:
 None in particular.
 Avoid contact with combustible materials. The product could catch fire.
 Hazardous decomposition products:
 None.

11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substances in the preparation.

n-butyl acetate

OBSERVATIONS ON HUMAN SUBJECTS:

Inhalation: 3300 ppm (16 mg/l), for short periods, cause serious irritation to the eyes and to the nose.

Inhalation: 200-300 ppm (1-1.4 mg/l), for short periods, cause moderate irritation to the eyes and to the nose.

Inhaling the vapours can irritate the respiratory system.

The vapours can cause headache and nausea. As a liquid it can irritate the eyes and cause conjunctivitis, it can irritate the skin and cause dermatitis and, if swallowed, causes inebriation, hallucinations and sedation.

Symptoms of illness at 500 ppm. Serious toxic effects at 2,000 ppm for 60 min.

TCLo: 200 ppm

Solvent naphtha (petroleum), light aromatic

Acute toxicity:

Inhalation: vapour concentrations exceeding recommended exposure levels are irritating to eyes and respiratory tract, and may cause headache, dizziness and other effects on the central nervous system.

Skin contact: Low toxicity index.

Frequent or prolonged contact may dry the skin, causing dermatitis.

Eye contact: may cause discomfort to eyes with slight irritation, but with no tissue damage.

Ingestion: even small amounts of liquid introduced into the respiratory system during ingestion may cause bronchitis or lung damage. Low toxicity index.

2-methoxy-1-methylethyl acetate

Ways of penetrating: by inhalation, through the skin, by digestion.

Low degree of acute toxicity. LD50 oral (rat) > 5155 mg/kg. LC50 by inhalation (rat) > 37500 mg/l./4 hours. LD50 dermic (rabbit) > 2000 mg/kg.

Effects on man: dermatitis through contact with the skin, irritation of the mucous membranes through inhalation and after swallowing, depression of the central nervous system.

Symptoms: dry skin and strong irritation of the nasal mucous membranes.

Irritating powers: slightly irritating for the skin, irritating for the eyes. Negative sensitizing effect on the skin.



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4-methylpentan-2-one

Ways of penetrating: by inhalation, through the skin, by digestion.

Acute toxicity:

Irritation of the eyes: weakly irritating.

Irritation of the skin: weakly irritating.

Irritation of the respiratory tracts: weakly irritating.

Effects on man: high exposure can cause drowsiness and vertigo. Prolonged and repeated contact can cause dermatitis. Contact with the eyes is painful.

Effects on other organs and apparatus: narcosis and depression of the central nervous system, vomiting, diarrhea, damage to the liver and kidneys.

12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

List of substances dangerous for the environment and corresponding classification:

20% - 25% Solvent naphtha (petroleum), light aromatic

N.67/548/CEE: 649-356-00-4 CAS: 64742-95-6 EC: 265-199-0

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mobility: floats on water; evaporates from water and land surface but if significant part may penetrate and pollute ground water.

Persistence / degradability: assume the product is not rapidly biodegradable (from data of the component substances).

Bio-accumulation: product may be potentially bio-accumulative.

Ecotoxicity: assume product is toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

The waste of non-polymerized material must be considered as "Toxic and Harmful" waste, due to the presence of organic solvents higher than that permitted by European laws.

The empty containers must be considered as Special Waste Materials and disposed of at Type 2B Waste Dumps. If previously cleansed, they can be admitted in first class dumps.

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

Limited quantities, not liable to ADR norms for internal packages of up to 5L and a maximum 30kg per pack.

UN number:	1263
Packing Group:	III
Shipping Name:	Paint
Transport category :	3
ADRRID-Class:	3
Classification code :	F1
Label:	3
IMDG-Class:	3
IMDG-Label:	3
IMDG-EMS:	F-E, <u>S-E</u>

Marine pollutant MARPOL (Annex II/III): Yes



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15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments.

Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments.

Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent).

Commission Directive 2000/39/EC (Occupational exposure limit values).

Regulation (EC) No 1907/2006 (REACH).

Symbols:

Xn Harmful

R Phrases:

R10 Flammable.

R36/37 Irritating to eyes and respiratory system.

R52/53 Harmful 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.

S Phrases:

S23 Do not breathe vapour.

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

S37 Wear suitable gloves.

S51 Use only in well-ventilated areas.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

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

Contains:

Solvent naphtha (petroleum)

Volatile Organic compounds - VOCs = 850 g/L

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.41

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

16. OTHER INFORMATION

Text of R phrases referred to under heading 3:

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R36 Irritating to eyes.

R36/37 Irritating to eyes and respiratory system.

R37 Irritating to respiratory system.

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.



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Paragraphs modified from the previous revision:

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY
2. HAZARDS IDENTIFICATION
3. COMPOSITION/INFORMATION ON INGREDIENTS
9. PHYSICAL AND CHEMICAL PROPERTIES
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION
16. OTHER INFORMATION

Main bibliographic sources:

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

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

ACGIH - Threshold Limit Values - 2004 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

