

Safety Data Sheet

Product name :

DIECYL PLUS

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SDS n° :33101-33

Version :2.01

Version of : 2008-11-09

This sheet supersedes the one dated : 2006-07-05

PRODUCT LABELS

LABELLING (standard or EU):

Concerned

Symbol(s) :



Symbol(s) :

Xn Harmful N Dangerous for the environment.

Contains :

Solvent naphtha (petroleum), heavy aromatic.

R-phrases :

R-20/21 Harmful by inhalation and in contact with skin.
R-44 Risk of explosion if heated under confinement.
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R-65 Harmful: may cause lung damage if swallowed.
R-67 Vapours may cause drowsiness and dizziness.

S-phrases :

S-2 Keep out of reach of children.
S-15 Keep away from heat.
S-23 Do not breathe vapour.
S-24/25 Avoid contact with skin and eyes.
S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S-57 Use appropriate containment to avoid environmental contamination.
S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.

TRANSPORT LABELLING:

Applicable (see section 14)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Name of the product :

DIECYL PLUS

Code No. :

ENZ

Product application :

Additive for gazole

Supplier :

TOTAL LUBRIFIANTS
562 avenue du Parc de l'Ile
92029 Nanterre CEDEX
Tel: +33 (0)1 41 35 40 00
Fax: +33 (0)1 41 35 84 71
E-mail : rm.msds-lubs@total.com

Emergency telephones :

ORFILA / Tel : 01.45.42.59.59

See local details at end of sheet :

2. HAZARDS IDENTIFICATION

Health effects :

Special risks of burns, spattering, explosion or inhalation of vapours in confined premises.
Harmful by inhalation and in contact with skin.
Harmful : may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness.

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Environmental impact :

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

Do not discharge this product into the environment.

Physico-chemical hazards :

Risk of explosion if heated under confinement.

3. COMPOSITION/INFORMATION ON INGREDIENTS

PREPARATION

Chemical nature :

Product with solvent base

Substances presenting a health hazard	EC No.	CAS No.	Content	Symbol(s)	R-phrases
Solvent naphtha (petroleum), heavy aromatic.	265-198-5	64742-94-5	<100 %	Xn ,N	R-65, 66, 67, 51/53
naphthalene	202-049-5	91-20-3	<1 %	Xn ,N	R-50/53, 40, 22
2-ethylhexyl nitrate	248-363-6	27247-96-7	<20 %	Xn	R-20/21, 44

See section 16 for explanations of R-phrases :

4. FIRST AID MEASURES

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Inhalation :

Inhalation of heavy concentrations of vapour, fumes or spray, may cause mild irritation of the throat.

Transport the person into fresh air, keep warm and allow to rest.

Ingestion :

Possible risk of vomiting and diarrhoea.

Do not induce vomiting to avoid the risk of aspiration into the respiratory tract.

Give nothing to drink

Skin contact :

Immediately remove all soiled or stained clothing.

Wash the affected area immediately and repeatedly with soap and water.

Eye contact :

Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes.

Aspiration :

If the product is believed to have entered the lungs (in case of vomiting, for example), take the person to hospital for immediate care.

5. FIRE FIGHTING MEASURES

Flash point: See heading 9

Extinguishing media :

- suitable:

Foam, carbon dioxide (CO₂), powder.

- not recommended:

Do not use water jets (stick jets) for extinguishing fire, as this may help the spread of flames.

Specific hazards :

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled.

Vapours can build explosive mixtures with air.

Vapours are heavier than air and may spread on the ground to sources of ignition.

Protective measures for firefighters :

Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

Other :

All combustion residues and contaminated water from fire-fighting should be disposed of according to local regulations.

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6. ACCIDENTAL RELEASE MEASURES

See sections 8 and 13.

Personal protection :

As applicable in view of the risk of exposure, wear appropriate gloves, goggles, boots and protective clothing. Spills of this product can make surfaces slippery. Ensure good ventilation. Remove sources of ignition. Do not smoke.

After spillage / leakage :

- On land:
Do not allow the product to enter sewers or rivers or contaminate the soil. Recover with mechanical means such as pumps and skimmers.
- On water:
Floating absorbant material, then mechanical recovery.
If the product is spilt into rivers or sewers, notify the authorities of the possible presence of surface effluent.

7. HANDLING AND STORAGE

HANDLING :

Prevention of user exposure :

Ventilate extensively if the formation of vapours, fumes, mists or aerosol is a risk. Make all the necessary arrangements in order to reduce exposure risk, notably to products in use or to wastes. Keep away from combustible substances; keep away from food and beverages.

Prevention of fire and explosion :

Empty containers may contain flammable or explosive vapours. There is a fire hazard associated with rags, paper or any other material used to remove spills which become soaked with product. Avoid accumulation of these: they are to be disposed off safely after use.

Precautions :

Avoid static electricity build up with connection to earth. Set up machinery and equipment so as to avoid the risk of accidental spills or splashes onto hot machine parts and electrical contacts (on joint failure, for example).

STORAGE :

Technical measures :

Make the necessary arrangements to prevent water and soil pollution.

Storage precautions :

- Suitable:
Store at ambient temperature, protected against contact with water and moisture, and away from any source of ignition.
- To be avoided:
Do not store exposed to the elements.

Incompatible products :

Dangerous reaction with strong oxidizing agents.

Packaging materials :

- Recommended:
Use only hydrocarbon-resistant containers, joints, pipes, etc.
Keep in original container if possible.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical measures :

Use the product in a properly ventilated atmosphere. When working on enclosed place (tanks, reservoirs...), make sure that atmosphere is not suffocating and/or wear recommended equipment.

Composant	N°. CAS	Référence	VME 8 h	VLE 15 mn	Date
naphthalene	91-20-3	VLEP.	50 mg/m3		

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Respiratory protection :	Use respiratory breathing apparatus approved for organic vapours and mists when entering. places that are difficult to ventilate, areas where there is a risk of overexposure to vapours.
Hand protection :	Impermeable hydrocarbon-proof gloves. recommended material: nitrile , neoprene. The break through times of the same type of glove of different manufacturers can be very different - even if the layer thickness is similar. Therefore the break through times have to be found out from the manufacturer of the protective gloves themselves. The demands on the gloves are determined by the conditions in practice (e.g. multiple use, mechanical load, temperature, strength and duration of exposition). Before choosing suitable gloves, it is recommended that the user tests the gloves.
Eye protection :	Goggles, in case of risk of splashing.
Skin and body (other than the hands) protection :	As required, wear a face mask, hydrocarbon-proof clothing, and safety boots (when handling drums). Long sleeve shirts are recommended. Don't wear rings, watches or anything similar which can retain the product and may give rise to skin conditions.
Hygienic work practices :	Avoid prolonged or repeated contact with the skin, particularly with used or waste oil. Immediately remove all soiled or stained clothing. If the product comes into contact with the skin, wash the affected area immediately and copiously with soap and water. Do not use abrasives, solvents or fuels. In case of contact with eyes, wash immediately in copious amounts of water while keeping eyelids spread apart for at least 15 minutes and consult a specialist. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets. Do not eat, drink or smoke whilst handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Liquid
Colour :	Yellow to amber.
Odour :	Characteristic
Density/specific gravity :	900 kg/m3 Temperature (°C) 15
Flash point :	> 56 °C P/M Pensky-Martens.
Solubility :	Soluble in many common solvents. Insoluble in water.
Viscosity :	2.00 cSt Temperature (°C) 40

10. STABILITY AND REACTIVITY

Stability :	The product is stable at normal storage, handling and use temperatures. Risk of explosion if heated under confinement. Decomposition above 100 °C. Nitrate Undergoes exothermic decomposition at 130°C.
Conditions to avoid :	No dangerous reactions under normal conditions of use. Refer to Technical data sheet. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity

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Materials to avoid : Avoid contact with strong oxidizers
Hazardous decomp. products : Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

Acute toxicity / Local effect :

Inhalation, comments: Harmful by inhalation.

Skin contact, comments: Harmful in contact with skin.

Eye contact, comments: Strong concentrations of vapour and spray of hot product may be irritating for the eyes

Ingestion, comments: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions.

CHRONIC TOXICITY OR LONG-TERM TOXICITY :

Inhalation : Drowsiness, dizziness, disorientation, vertigo.

Skin contact : Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing

Sensitization : To our knowledge, the product does not cause aggravated sensitivity.

12. ECOLOGICAL INFORMATION

Comments about ecotoxicity : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Experimental data on the finished product are not available.
no information available for used product

Mobility :

- Air:
there is a slow loss by evaporation.
- Soil:
Given its physical and chemical characteristics, the product generally shows little mobility in the ground.
- Water:
Partially soluble

Persistence and degradability : No experimental information about the finished product.
The product should offer slow biodegradability
Some components of the product may not be biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste disposal : Dispose of in a safe manner, in accordance with local regulations.
If need be, collection by an authorised waste contractor and regeneration or incineration at an approved installation.

Waste class : The waste classification is dependant on the composition of the product at the time of disposal.
The waste classification mentioned here represents only a recommendation. The waste producer is responsible for the correct specification of the waste. The specification of the waste classification should be in arrangement with the authorised waste disposal company.

Disposal of contaminated packaging : Proceed in compliance with the prevailing regulations.

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National regulations :

- France
List of wastes: OJEC L349 of 16.02.2001.
Law No. 75-633 of 15.07.75 amended, relative to the elimination of wastes and the recovery of materials.
Regulations concerning the collection of used oils:
Decree 79-981 of 21.11.79 and rules of 28.01.99 relative to their collection and the conditions for their elimination.
Law No. 88-1261 of 30.12.88 concerning the import, export and transit of wastes.
Decree No. 77-254 of 08.03.77 relative to the regulation for the dumping of oils and lubricants into surface waters.

14. TRANSPORT INFORMATION

UN Number :

1993

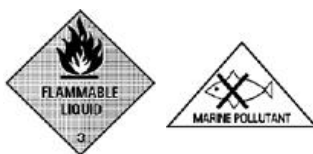
Proper shipping name (national) :

Liquides inflammables, n.s.a. (Contient: solvant naphta, Nitrate d'ethylhexyle)

Proper shipping name (international) :

Flammable liquid, n.o.s. (Contains: Solvent naphtha, Ethylhexyl nitrate)

Label for conveyance :



Road (ADR) / Rail (RID) :

Class :

3

Code de classification :

F1

Hazard Label(s) :

3

Hazard identification number :

30

Packing Group :

III

Transport by barge (ADNR) :

Class :

3

Code de classification :

F1

Hazard Label(s) :

3

Packing Group :

III

Marine (IMO-IMDG) :

Class :

3

Hazard Label(s) :

3

Marine pollutant :

Yes.

Packing Group :

III

Air (ICAO/IATA) :

Class :

3

Hazard Label(s) :

3

Packing Group :

III

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Special provisions :

- ADR :
274
640E

15. REGULATORY INFORMATION

Symbol(s) :



Symbol(s) :

Xn Harmful N Dangerous for the environment.

Contains :

Solvent naphtha (petroleum), heavy aromatic.

Risk phrases :

R-20/21 Harmful by inhalation and in contact with skin.
R-44 Risk of explosion if heated under confinement.
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R-65 Harmful: may cause lung damage if swallowed.
R-67 Vapours may cause drowsiness and dizziness.

Safety phrases :

S-2 Keep out of reach of children.
S-15 Keep away from heat.
S-23 Do not breathe vapour.
S-24/25 Avoid contact with skin and eyes.
S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S-57 Use appropriate containment to avoid environmental contamination.
S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.

EU directives :

Hazardous preparations directive 1999/45/EC modified (Directive 2001/60/EC).
This product fulfills the requirements of the European directives :
76/769/EEC
2000/53/EC
2002/95/EC
2002/96/EC
2003/11/EC

Labor code :

- Art. R 241-50, decree of 07.11.1977 (special medical surveillance).

INVENTORIES:

CANADA (DSL) :

One or more components not found on DSL, NDSL

EUROPE (EINECS) :

All components on EINECS inventory

JAPAN (ENCS) :

All components on MITI

PHILIPPINES (PICCS) :

All components on PICCS

USA (TSCA) :

All components listed in TSCA

AUSTRALIAN (AICS) :

All components on AICS

KOREA (ECL) :

One or more components not found on ECL

CHINA :

One or more components not found on IECSC



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16. OTHER INFORMATION

This sheet is in compliance with the standards defined by the directives 91/155/CEE, 93/112/CEE, 2001/58/CE and the article 14 of the directive 1999/45/EC.

For France, in case of poisoning call the Antipoison Centre (if possible in your area) and/or the SAMU (15), see ORFILA number below -
Tel : Angers 02.41.48.21.21 - Bordeaux 05.56.96.40.80 - Lille 03.20.44.44.44 - Lyon 04.72.11.69.11 - Marseille 04.91.75.25.25 - Nancy 03.83.32.36.36 - Paris 01.40.05.48.48 - Rennes 02.99.59.22.22 - Strasbourg 03.88.37.37.37 - Toulouse 05.61.77.74.47

Explanations of R-phrases in section 2 :

R-65 Harmful: may cause lung damage if swallowed.

R-66 Repeated exposure may cause skin dryness or cracking.

R-67 Vapours may cause drowsiness and dizziness.

R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R-50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R-40 Limited evidence of a carcinogenic effect.

R-22 Harmful if swallowed.

R-20/21 Harmful by inhalation and in contact with skin.

R-44 Risk of explosion if heated under confinement.

Revision date: 2008-11-09

Supersedes the data sheet of: 2006-07-05

* Information revised since the previous version of the SDS :

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.