ALTENE D6

N° CAS : 79-01-6 **N° ONU : 1710**
N° EINECS : 201-167-4

1 - COMMERCIAL SPECIFICATIONS

Characteristic	Unit	Value	Analysis method
Coloration	Hazen	≤ 10	SAB/SOLV GEN N° 15
Density at 20°C	kg/m3	1448-1458	SAB/MET GEN N° 40
Water content	mg/kg	≤ 100	SAB/MET SOLV GEN N° 14
Acid acceptance (NaOH)	%	≥ 0,2	SAB/SOLV GEN N° 2

2 - CHARACTERISTICS / TECHNICAL INFORMATIONS

Characteristic	Unit	Typical Value	Analysis method
pH of the aqueous extract	-	≥ 9	SAB/SOLV GEN N° 5
Evaporation residue at 105 ± 5	mg/kg	≤ 20	SAB/SOLV GEN N° 11
Chromatographic purity without stabilizers	% weight	≥ 99.8	SAB/TRI N° 111
Distillation range : Initial point Dry point	 °C °C	 ≥ 85.5 ≥ 88	
Free halogenes (test Ki)	-	None	SAB/SOLV GEN N° 21

3 - PACKAGING

BULK Tank truck
DRUMS 217 l non returnable steels drums (containing 285 kg).

4 - APPLICATIONS

ALTENE® D6 was specially developed for degreasing all metals in machines - including ferrous metals, aluminium, copper, zinc, lead, tin, silver and their alloys.
Following the trichlorethylene's reclassification published in the Official European Record (21/08/01), its utilization implicate to respect the very strict norms of its use in special machines for metals degreasing, using these cycles : liquid phase, vapour phase, both (liquid phase + vapour phase). Its utilization should be lead with using of hermetic machines which can answer to the values of the VOC directive (hourly output, low emission value with the canalized throws).

ALTENE® D6 PROVIDES PERFECT DEGREASING IN COMPLETE SAFETY.
It is used in machines designed for metallic degreasing either in liquid phase, vapour phase, or mixed (liquid phase + vapour phase) cycles.

ALTENE® D6 IS A NOBLE PRODUCT.

ALTENE® D6 is prepared from trichlorethylene with a minimum purity of 99.8%.

ALTENE® D6 MAINTAINS ALL ITS PERFORMANCES DURING USE.

The ALTENE® D6 stabilization formulation comprises a specific range of high efficiency stabilizing agents, particularly with the advantage of accompanying the solvent in its liquid and vapour phases.

Furthermore, the case supplied by ATOFINA is regularly used to check the pH and Acid Acceptance of ALTENE® D6

ALTENE® D6 IS THE DEGREASING SOLVENT USED FOR ALUMINUM AND ITS ALLOYS AND LIGHT METALS.
Standard qualities of trichlorethylene are not suitable for degreasing aluminium and its alloys which contain low proportions of aluminium such as Zamak.

The synergy mechanism of ALTENE® D6 stabilizing agents enables integral and long term protection of the trichlorethylene (under normal conditions of use) even in the presence of reactive metals that can produce metallic chlorides initiating decomposition of trichlorethylene.

The performances of ALTENE® D6 are shown up by certified laboratory tests (BAM, Bundesanstalt für Materialprüfung, Berlin, R.F.A.).

5 - RESIDUES RECUPERATION

Residues have to be treated with the respect of the regulation and given to approve organisms.

6 - GENERAL PROPRIETIES

PHYSICAL STATE (20°C)	Liquid
COLOUR	Colourless
ODOUR	Slightly
PH	Not applicable
BOILING POINT / RANGE	87°C
MELTING POINT / RANGE	Trichlorethylene : -73°C
DECOMPOSITION TEMPERATURE	110°C
FLASH POINT	Not flash point (in the test conditions)
AUTOIGNITION TEMPERATURE	410°C
EXPLOSIVE LIMITS	-
Lower	In presence of a powerful source of energy : 8%
Higher	In presence of a powerful source of energy : 52%
VAPOUR PRESSURE	(20°C) : 86 hPa (mbar) (70°C) : 590 hPa (mbar)
VAPOUR DENSITY	5.5 kg/m3
DENSITY	(20°C) : 1460 kg/m3
SOLUBILITY	-
Water	(20°C) : 1.1g/kg
Solvents	Soluble in most organic solvents
PARTITION COEFFICIENT (n-octanol/water)	log POW=2.4
OTHER DATA	Relative evaporation time in comparison with ether 3.8

7-CLASSIFICATION / LABELLING

TRICHLORETHYLENE : R45 : may cause cancer ; R36/38 : Irritating to eyes and skin ; R52/53 : Harmful to aquatic organisms, may cause long –term adverse effects in the aquatic environment ; R67 : Vapours may cause drowsiness and dizziness ; R68 : Possible risk of irreversible effects ; S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible) ; S53 : Avoid exposure – obtain special instructions before use ; S61 : Avoid release to the environment. Refer to special instructions/Safety data sheet.
Restricted to professional users.

8 - HYGIENE / SECURITY / SAFETY USE

ALTENE® D6 is a non-flammable liquid, there is no flash point.

ALTENE® D6 is under the same regulations as trichlorethylene.
Workers have to be protected against the risks due to the use of carcinogenic substances (decree n°2001-97 / 1st February 2004).

ALTENE® D6 accidental ingestion or inhalation is dangerous.
In FRANCE, for trichlorethylene, the Working Ministry has fixed exposure limits in working atmosphere at VME=75ppm corresponding to 405 mg/m3 (in 1999 / to be actualized).
Nude flame and/or very hot surface provocate trichlorethylene vapours decomposition, conducing to toxic and corrosive products.
For people in this working area, non smoking is strongly recommended.
Any soldering must start after high ventilation of the area.

For these reasons, *ALTENE® D6* user's equipment should be the same as for chlorinated solvents in order to avoid working beyond the permissible higher value described before.
For further advices, please refer to Safety Data Sheet n° 00600.

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Altène D6 en anglais

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