

MATERIAL SAFETY DATA SHEET

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Revision nr : 2

Date : 29/4/2015

Supersedes : 28/4/2010

ALU & PVC CLEANER**Code : 14118**

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

1.1. Product identifier

- * Chemical description : ALU & PVC CLEANER
- * Type of product : Mixture.
- * Reach registration number : -

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

- * Identified use(s) : Solvent .
- * Use(s) advised against : Non identified .
Not for use in ornamental articles, in tricks and jokes and in games (in accordance with Annex XVII to Regulation (EC) No 1907/2006) (3. Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/45/EC).

1.3. Details of the supplier of the safety data sheet

- * Company identification : DUTHOO NV
Street : ESSERSTRAAT 3
Postal code/city : BE - 8550 ZWEVEGEM
Telephone : +32 (0)56 360 774
Telefax : +32 (0)56 360 776 - E-mail (competent person) : info@duthoo.eu

1.4. Emergency telephone number

- * Emergency phone number : België : Antipoison Center - Brussels
TEL: +32(0)70/245.245

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Harmful (Xn; R65)
Other (-; R66)

Classification according to Regulation (EC) No 1272/2008

- * Aspiration hazard - Category 1 - Danger (Asp. Tox. 1; H304)

2.2. Label elements

Label in accordance with Regulation (EC) No 1272/2008

- * • Dangerous ingredient(s) : Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
- * • Hazard pictogram(s)



- * • Signal word : Danger
- * • Hazard statements : H304 - May be fatal if swallowed and enters airways. EUH066 - Repeated exposure may cause skin dryness or cracking.
- * • Precautionary statements
- * - Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 - Wear protective gloves, protective clothing, eye protection, face protection.
- * - Response : P301+P310+P331 - IF SWALLOWED : Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
- * - Storage : P403+P235 - Store in well-ventilated place. Keep cool.

2.3. Other hazards

- * Physical/chemical hazards : May generate static electric discharges.

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SECTION 2. Hazards identification (continued)

- * Hazards for the health : No additional hazard.
- * Hazards for the environment : No significant danger. This product is no substance or contains no PBT or vPvB (in accordance with Annex XIII).
- * Hazards for the safety : The product can release vapours that readily form flammable mixtures.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

- * HARMFUL COMPONENT(S)

Name component(s)	Weight %	CAS nr	EINECS nr	Index nr	Reach nr	CLASSIFICATION
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	> 50 %	----	918-481-9	----	01-2119457273-39	Xn; R65 R66 ----- Asp. Tox. 1; H304 STOT RE; EUH066

- * The full text of the R-phrases and (EU)H-statements is in section 16.

Note: Any entry in the column "EINECS nr" that begins with the number "9" is a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.

SECTION 4. First aid measures

4.1. Description of first aid measures

- General : In case of doubt or persistent symptoms, call a physician.
Never give anything by mouth to an unconscious person.
- First Aid Measures
- Inhalation : Remove victim into fresh air.
Allow the affected person to rest in semi-sitting position.
If not breathing, give artificial respiration.
Consult a doctor.
- Skin Contact : Remove contaminated clothing.
Rinse skin immediately with mild soap and plenty of water. (shower if necessary).
- * - Eye Contact : Rinse immediately thoroughly and long (at least 15 min.) with plenty of water.
Remove contact lenses.
Consult eye doctor if irritation of eyes develops.
Keep rinsing or dripping the eye during transport.
- * - Ingestion : DO NOT INDUCE VOMITING. Rinse mouth with water.
Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

- * See section 11.

4.3. Indication of any immediate medical attention and special treatment needed

- * For specialist advice doctors should contact the Belgian Poison center.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Extinguishing Media

- * - Suitable : Extinguishing powder , Alcohol resistant foam , Carbon dioxide (CO2) , Water spray

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SECTION 5. Firefighting measures (continued)

- Insuitable : Heavy water stream .

5.2. Special hazards arising from the substance or mixture

Special Exposure Hazards : Fire may liberate carbon oxides (CO) and smoke.

5.3. Advice for firefighters

- * Special Protective Equipment for Firefighters : Use self-contained breathing apparatus and wear protective clothes when in close proximity to fire.
- Special Procedures : Apply water spray or fog to cool nearby equipment. Avoid fire-fighting water to enter environment.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions : Eliminate every possible source of ignition (open fire, sparks, smoking, ...). Evacuate all personnel immediately and ventilate area. Avoid breathing vapour and contact with skin, eyes and clothing. Wear recommended personal protective equipment. (See section 8)

6.2. Environmental precautions

Environmental Precautions : Shut off leaks if without risks. Dike in the spilled product as much as possible with inert material. Prevent entry of product in public water, sewers or soil. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for Cleaning Up : Collect the spillage in closable, suitable disposal containers. Clean up any spills as soon as possible, using an inert absorbent material. Residue is to be washed down with plenty of water.

6.4. Reference to other sections

- * For personal protection, see section 8.
- For the removal of the waste product, see section 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

- * Handling : Avoid breathing vapour and contact with skin, eyes and clothing. Wear recommended personal protective equipment. (See section 8)
When using, do not eat, drink or smoke.
Wash hands before and after working with the product.
Emergency eye wash fountains and showers should be available in the immediate vicinity of any potential exposure.

7.2. Conditions for safe storage, including any incompatibilities

- Storage : Keep only in the original, safely locked container in a cool, well ventilated and fireproof place.
Store away from all heat sources, including direct sunlight.
All dangerous products should be placed on a drip tray or should be barreled.
Keep away from : Strong oxidizing agents .
- * Protection against Fire and Explosion : Eliminate every possible source of ignition (open fire, sparks, smoking, ...).
At or above flash point, available vapours may burn in open or explode if confined when mixed with air and exposed to ignition source.
Vapours are heavier than air and spread along the ground.
Use special care to avoid static electric discharges.

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SECTION 7. Handling and storage (continued)

- * Packaging Material : Carbon steel , Stainless steel , Polyethylene , Polypropylene , Polyester , Teflon .
- * Insuitable Packaging Material : EPDM , Polystyrene , Butyl rubber , Natural rubber .

7.3. Specific end use(s)

- * For identified uses, see subsection 1.2 and/or exposure scenarios.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

- * Occupational Exposure Limits : For harmful components :
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics :
Recommended limit (RCP-TWA) (Producer) : 184 ppm (1200 mg/m³) (Total hydrocarbons)
- * Biological limit values : They will be included when available.
- * DNELs : For harmful components :
 - Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : Not applicable
- * PNECs : For harmful components :
 - Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : Not applicable

8.2. Exposure controls

- * Engineering Measures : Ventilation , Local exhaust .
- * Personal Protection Equipment
- * - Respiratory protection : CE-approved mask for organic vapours and solvents (type A, brown).
- * - Skin protection : Suitable protective clothing .
- * - Hand protection : Suitable material for safety gloves (EN 374):
As the product is a mixture of several substances, the durability of the glove materials can't be calculated in advance and has to be tested before use.
 - material : Nitril rubber
 - thickness : 0,11 mm
 - breakthrough time : > 8 h
- * - Eye/Face protection : Closed safety glasses or face shield.
- * Environmental exposure controls : See sections 6, 7, 12 and 13.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical State (20°C) : Liquid .
- Form/Colour : Clear , Colourless .
- * Odour : Hydrocarbon odour .
- * Odour threshold : No data available for the mixture.
- * pH value : Not applicable.
- * Melting/Freezing point : < -20 °C
- * Boiling Point/Range (1013 hPa) : 180 - 217 °C
- Flash point : > 62 °C
- * Fire hazard : P3
- * Evaporation rate : No data available for the mixture.
- * Explosion limits in air : 0,6 - 7,0 vol.%

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SECTION 9. Physical and chemical properties (continued)

- * Vapour pressure (20°C) : < 0,1 kPa
- * Relative vapour density (air=1) : No data available for the mixture.
- * Relative density of saturated vapour/air mixture (air=1) : No data available for the mixture.
- * Density (20°C) : 0,785 - 0,795 kg/l
- Solubility in water : Negligible .
- * Log P Octanol/Water (20°C) : No data available for the mixture.
- * Auto-ignition temperature : > 200 °C
- * Minimum ignition energy : No data available for the mixture.
- * Decomposition temperature : No data available for the mixture.
- * Viscosity : No data available for the mixture.
- * Explosive properties : No chemical groups associated with explosive properties .
- * Oxidizing properties : No chemical groups associated with oxidizing properties .

9.2. Other information

- % Volatiles (by weight) : > 99

SECTION 10. Stability and reactivity

10.1. Reactivity

- * Reactivity : Reacts with : Strong oxidizing agents .

10.2. Chemical stability

- Stability : Stable at normal circumstances .

10.3. Possibility of hazardous reactions

- * Hazardous reactions : May generate static electric discharges.

10.4. Conditions to avoid

- Conditions to avoid : High temperatures .

10.5. Incompatible materials

- Materials to avoid : Strong oxidizing agents .

10.6. Hazardous decomposition products

- * Hazardous Decomposition Products : Carbon oxides .

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

- * - Inhalation : May cause irritation of respiratory tract.
Symptoms include: Dizziness , Nausea , Unconsciousness .
For harmful components :
 - Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : LC50 (Rat, inhalation, 4 h) : >4951 mg/m³ (OECD Test guideline 403)
- * - Skin contact : May be irritating for the skin.
Symptoms include: Redness , Pain .
For harmful components :
 - Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : LD50 (Rabbit, dermal) : >5000 mg/kg (OECD Test guideline 402)
- * - Ingestion : Minimal toxicity.
After swallowing, some drops of liquid can enter the lungs (aspiration), which may

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- cause pneumonia.
Symptoms include: Vomiting , Nausea .
For harmful components :
• Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : LD50 (Rat, oral) : >5000 mg/kg (OECD Test guideline 401)
- * Skin corrosion/irritation : Slightly irritating .
* Serious eye damage/irritation : Slightly irritating .
* Aspiration hazard : May be fatal if swallowed and enters airways.
* Respiratory or skin sensitisation : Not sensitive .
* Carcinogenicity : Not listed as carcinogenic .
* Mutagenicity : Not listed as mutagenic .
* Reproductive toxicity : Not listed for reproductive toxicity .
* Specific target organ toxicity - single exposure : To human : Listed not for organ toxicity .
For animals : No data available for the mixture.
* Specific target organ toxicity - repeated exposure : To human : Repeated exposure may cause skin dryness or cracking.

SECTION 12. Ecological information**12.1. Toxicity**

- * Ecotoxicity : For harmful components :
• Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : LL0 (Fish, 96 h) : 1000 mg/l (Oncorhynchus mykiss)
• Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : EL0 (Daphnia magna, 48 h) : 1000 mg/l
• Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : EL0 (Algae, 72 h) : 1000 mg/l (Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

- * Persistence and degradability : For harmful components :
• Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : Persistence and degradability : Expected to be easily biodegradable.

12.3. Bioaccumulative potential

- * Bioaccumulation : For harmful components :
• Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : Bioaccumulation : Not determined.

12.4. Mobility in soil

- * Mobility : For harmful components :
• Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : Mobility : It is not expected to extract to the sediment and the fraction fixed substances in the waste water.

12.5. Results of PBT and vPvB assessment

- * Evaluation : For harmful components :
• Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : PBT/ vPvB : No

12.6. Other adverse effects

- * Photochemical ozone creation potential : No data available for the mixture.
* Ozone depletion potential : No data available for the mixture.
* Endocrine disrupting potential : No data available for the mixture.

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SECTION 12. Ecological information (continued)

* Global warming potential : No data available for the mixture.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Waste from residues/Unused products : The product has to be destroyed according to national or local legislation, by a company specialised in handling hazardous waste products.

* European list of waste products : XXXXXX - European waste product code. This code is assigned on the basis of the most current applications and can not be representative for pollutions which are arisen at the effective use of the product. The producer of the waste has to evaluate its process himself and has to grant the appropriate waste coding. See Decision 2001/118/EC.

Removal contaminated packaging : Packing is to be used exclusively for the packing of this product. After use, empty and close the packing very carefully. In case of returned packing, the empty packing can be offered back to the supplier.

SECTION 14. Transport information

14.1. UN number

UN Number : -

14.2. UN proper shipping name

ADR/RID Name : -

* ADN Name : -

IMDG Name : -

* IATA Name : -

14.3. Transport hazard classe(s)

Class : -

14.4. Packing group

Packaging Group : -

14.5. Environmental hazards

* Environmentally hazard : -

Marine pollutant : -

14.6. Special precautions for user

Danger number : -

Hazard Label(s) : -

EmS-N° : -

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

* Type ship : -

* Pollution category : -

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

* Relevant EU Rule(s) : Directive 98/24/EC of the Council of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
Directive 1999/13/EC of the Council of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in

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SECTION 15. Regulatory information (continued)

certain activities and installations
Decision 2001/118/EC of the Commission of 16 January 2001 amending Decision 2000/532/EC as regards the list of wastes
Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (Reach)

* The restrictions in Annex XVII to Regulation (EC) No 1907/2006 must be observed.

* National regulations

* - Netherlands : Water damaging : 11
Decontamination exertion : B

15.2. Chemical Safety Assessment

* A chemical safety assessment has been carried out for the components that make up this material.

SECTION 16. Other information

* This safety data sheet has been drawn up in accordance with Regulation (EU) No 453/2010.
This safety data sheet is exclusively made for industrial/professional use.

* Has changed compared to previous revision.

* Changes : General revision .

* Sources of used key data : The information contained herein is based on the present state of our knowledge (Producers of starting materials , ...).
See also on the webaddress:
<http://apps.echa.europa.eu/registered/registered-sub.aspx#search>

R-phrases(s) : R65 - Harmful : may cause lung damage if swallowed.
R66 - Repeated exposure may cause skin dryness or cracking.

* (EU)H-statement(s) : H304 - May be fatal if swallowed and enters airways.
EUH066 - Repeated exposure may cause skin dryness or cracking.

* Classification procedure : Asp. Tox. 1; H304 - Additivity method

* List of abbreviations and acronyms : ADN (Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation interieur) : European agreement concerning the international carriage of dangerous goods by inland waterways
ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route) : European agreement concerning the international carriage of dangerous goods by road
Asp. Tox. 1 : Aspiration hazard - Category 1
CO : Carbon monoxide
DNEL (Derived No Effect Level) : an estimated safe exposure level
EL (Effective Loading)
EmS (Emergency Schedule) : the first code refers to the relevant fire schedule and the second code refers to the relevant spillage schedule
EPDM : Ethylene propylene diene monomer
IATA (International Air Transport Association) : provisions concerning the international carriage of dangerous goods by air
IMDG (International Maritime Dangerous Goods code)
LC50 : median Lethal Concentration

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SECTION 16. Other information (continued)

LD50 : median Lethal Dose

LL (Lethal Loading)

OECD : Organisation for Economic Cooperation and Development

PBT : persistent, bioaccumulative and toxic

PNEC (Predicted No Effect Concentration) : concentration below which exposure to a substance is not expected to cause adverse effects

RCP (Reciprocal Calculation Procedure)

REACH : Registration, Evaluation, Authorisation and restriction of Chemicals

RID (Règlement concernant le transport International ferroviaire des marchandises

Dangereuses) : Regulation concerning the International carriage of Dangerous goods by rail

STOT RE : Specific Target Organ Toxicity - Repeated exposure

TWA (Time-Weighted Average) : the average exposure over a specified period

vPvB : very persistent and very bioaccumulative

This information is to our knowledge correct and complete on the date of issue of this safety data sheet. The information only concerns the product and does not give any guarantee for the quality and the completeness of the properties of the product, or in case of mixing or using in any other process. It remains the responsibility of the user to assure himself that the information is suitable and complete concerning the special use he makes of the product.

DUTHOO denies all responsibility for loss or damage resulting from the use of these data.

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