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

1.1. Product identifier

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Further trade names

Glass pre-treatment cleaner
Glasvorbereitungsreiniger
Nettoyant prétraitementp pour verre
Tratamiento pre-limpieza cristales

Product group: Zulieferprodukt

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

Industrial Cleaning Agents

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	PMA/TOOLS AG	
Street:	Siemensring 42	
Place:	D-47877 Willich	
Telephone:	+49 2154 922230	Telefax: +49 2154 922255
e-mail:	info@pma-tools.de	
Contact person:	Michael Münter	
e-mail:	msds@pma-tools.de - Please DO NOT use for requesting Safety Data Sheets.	
Internet:	www.pma-tools.de	
Responsible Department:	Labor	

1.4. Emergency telephone number:

Telephone number of the company in case of emergencies:
+49 2154 922230 (Mon - Fri 8.00h - 17.00h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Flammable liquid: Flam. Liq. 2
Aspiration hazard: Asp. Tox. 1
Skin corrosion/irritation: Skin Irrit. 2
Specific target organ toxicity - single exposure: STOT SE 3
Hazardous to the aquatic environment: Aquatic Chronic 2
Hazard Statements:
Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

2.2. Label elements

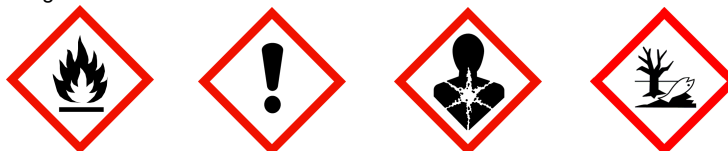
Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane

Signal word: Danger

Pictograms:

**Hazard statements**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long lasting effects.

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Precautionary statements

P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P331 Do NOT induce vomiting.
 P370+P378 In case of fire: Use Foam. Dry extinguishing powder. Carbon dioxide (CO₂) to extinguish.

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Solvent Surface pre-treatment

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane			80 - 100 %
	295-763-1		01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
110-54-3	n-hexane			1- < 3 %
	203-777-6	601-037-00-0		
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 2; H225 H361f H315 H336 H373 H304 H411			

Full text of H and EUH statements: see section 16.

Further Information

Labelling for contents according to regulation (EC) No. 648/2004:
 > 30 % aliphatic hydrocarbons

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Remove casualty to fresh air and keep warm and at rest. Call a doctor.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician in any case! Observe risk of aspiration if vomiting occurs.

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

Vapours may cause drowsiness and dizziness. May be harmful if swallowed and enters airways. Pneumonia, Pulmonary oedema.

Following skin contact: erythema (redness)

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

Do NOT induce vomiting. Call a physician immediately.

Harmful: may cause lung damage if swallowed.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

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Suitable extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂), Foam, Water spray jet, Extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Gases/vapours, toxic

5.3. Advice for firefighters

Wear personal protection equipment (refer to section 8). In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.
Avoid contact with skin, eyes and clothes.
Avoid: Special danger of slipping by leaking/spilling product.
Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13

6.4. Reference to other sections

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Remove all sources of ignition.
Provide earthing of containers, equipment, pumps and ventilation facilities.
Use explosion-proof electrical equipment.
Use only antistatically equipped (spark-free) tools.
Take action to prevent static discharges.

Further information on handling

When using do not eat, drink or smoke.
Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a well-ventilated place. Store in a cool dry place.
Keep away from heat. Protect against direct sunlight.
storage temperature: < + 25°C

Advice on storage compatibility

Do not store together with: Substances, oxidising, Spontaneously flammable.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane			
Worker DNEL,		dermal	systemic	773 mg/kg bw/day
Worker DNEL,		inhalation	systemic	2035 mg/m ³
Consumer DNEL,		dermal	systemic	699 mg/kg bw/day
Consumer DNEL,		inhalation	systemic	608 mg/m ³
Consumer DNEL,		oral	systemic	699 mg/kg bw/day
110-54-3	n-hexane			
Consumer DNEL,		inhalation	systemic	16 mg/m ³
Worker DNEL,		dermal	systemic	11 mg/kg bw/day
Consumer DNEL,		dermal	systemic	5,3 mg/kg bw/day
Worker DNEL,		inhalation	systemic	75 mg/m ³
Consumer DNEL,		oral	systemic	4 mg/kg bw/day

PNEC values

CAS No	Substance	Value
110-54-3	n-hexane	

8.2. Exposure controls



Appropriate engineering controls

Use only outdoors or in a well-ventilated area.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye protection/face protection. goggles (DIN EN 166).

Hand protection

Wear suitable gloves. DIN EN 374.

Recommended material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough time (maximum wearing time): INDEX No. 2, > 30 Min. / INDEX No. 6, > 480 Min.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Replace when worn.

Skin protection

Use personal protection equipment. / .

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Combination filtering device (EN 14387) ABEK-P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	clear, colourless
Odour:	Solvent

Test method

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pH-Value:	not determined
Changes in the physical state	
Melting point:	not determined
Initial boiling point and boiling range:	88 °C
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	-12 °C
Sustaining combustion:	No data available
Flammability	
Solid:	not determined
Gas:	not determined
Explosive properties	
not determined	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature	
Solid:	not determined
Gas:	not determined
Decomposition temperature:	not determined
Oxidizing properties	
Not oxidising.	
Vapour pressure:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	0,705 g/cm ³
Bulk density:	not determined
Water solubility:	Immiscible
Solubility in other solvents	
not determined	
Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	0,61 mm ² /s
Flow time:	not determined
Vapour density:	not determined
Evaporation rate:	not determined

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidising agent

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

Oxidising agent

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Toxicokinetics, metabolism and distribution

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane				
	oral	LD50 mg/kg	5000	Rat	OECD 401
	dermal	LD50 mg/kg	>2000	Rat	OECD 402
110-54-3	n-hexane				
	oral	LD50 mg/kg	16000	Rat	OECD 401

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

not sensitising.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

Aspiration hazard

May be fatal if swallowed and enters airways.

Further information

List substance (Regulation (EC) No. 1272/2008, Annex VI, part 3)

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane					
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
	Crustacea toxicity	NOEC	0,17 mg/l	21 d	Daphnia magna (Big water flea)	OECD 211
110-54-3	n-hexane					
	Acute fish toxicity	LC50	2,5 mg/l	96 h	Pimephales promelas	Geiger et al. 1990
	Acute algae toxicity	ErC50	1-10 mg/l			OECD 201
	Acute crustacea toxicity	EC50	2,1 mg/l	48 h	Daphnia magna (Big water flea)	
	Acute bacteria toxicity		(1-10 mg/l)			OECD 209

12.2. Persistence and degradability

Regulation (EC) No. 648/2004 (Detergents regulation) - Contains: none Surfactant

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CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	98%		
	Readily biodegradable (according to OECD criteria).				
110-54-3	n-hexane				
	readily biodegradable, but failing 10-day window		>60%		

12.3. Bioaccumulative potential

Readily biodegradable (according to OECD criteria).

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
110-54-3	n-hexane	4

12.4. Mobility in soil

Product is easily volatile.

12.5. Results of PBT and vPvB assessment

The product has not been tested. The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Send to a hazardous waste incinerator facility under observation of official regulations.

Waste disposal number of waste from residues/unused products

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures; hazardous waste

Contaminated packaging

The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number:** UN 1268
14.2. UN proper shipping name: PETROLEUM DISTILLATES, N.O.S.
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



- Classification code: F1
 Special Provisions: 640C ADR664
 Limited quantity: 1 L
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 33
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

- 14.1. UN number:** UN 1268
14.2. UN proper shipping name: PETROLEUM DISTILLATES, N.O.S.
14.3. Transport hazard class(es): 3

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14.4. Packing group:

II

Hazard label:

3



Classification code: F1
 Special Provisions: 363 640C
 Limited quantity: 1 L
 Excepted quantity: E2

Marine transport (IMDG)**14.1. UN number:**

UN 1268

14.2. UN proper shipping name:

PETROLEUM DISTILLATES, N.O.S (Petroleum naphta)

14.3. Transport hazard class(es):

3

14.4. Packing group:

II

Hazard label:

3



Special Provisions: -
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number:**

UN 1268

14.2. UN proper shipping name:

Petroleum distillates, n.o.s.

14.3. Transport hazard class(es):

3

14.4. Packing group:

II

Hazard label:

3



Special Provisions: A3
 Limited quantity Passenger: 1 L
 Passenger LQ: Y341
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 353
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 364
 IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Hydrocarbons, liquid, n.o.s

14.6. Special precautions for user

Land transport (ADR/RID): Special provisions: 640D (D/E)
 Inland waterway craft (ADN): Special provisions: 640D (D/E)
 Sea transport (IMDG): not applicable
 Air transport (ICAO-TI / IATA-DGR): not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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EU regulatory information

2010/75/EU (VOC): 98,6 %

Additional information

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content. VOC-value (in g/L): max. 695 g/l

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 2 - clearly water contaminating

Additional information

Berufsgenossenschaftliche Informationen (BGI) 621 Solvent

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

BGI: Berufsgenossenschaftliche Informationen (trade association information).

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures (REGULATION (EC) No 1272/2008)

DIN: Deutsches Institut für Normung (German institute for standardization)

DMEL: Derived Minimum Effect Level

DNEL: Derived No Effect Level

EC: European Community

EC50: Half maximal effective concentration

EG: Europäische Gemeinschaft (European Community)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EN: European Norms

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

PBT: persistent, bioaccumulative and toxic

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006).

RID: Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulation concerning the International Carriage of Dangerous Goods by Rail).

UN: Untited Nations

VOC: Volatile organic compounds

vPvB: very persistent and very bioaccumulative

WGK Wassergefährdungsklasse (water hazard class)

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.

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H411 Toxic to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)