

SAFETY DATA SHEET
according to Regulation (EU) 2015/830

Revision date: 28.04.2016

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

Product details

Trade name: Primer for 773 adhesive for windscreens

Article number: 38721

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

Intended for general public.

Product form: Mixture

Product group: Trade product

Uses advised against: No additional information available

Intended use: Car refinishing Product/Knife filler/ Adhesive

Manufacturer/Supplier: Chamäleon GmbH

Rudolf-Diesel-Straße, 8a, 69115 Heidelberg -- Germany

Further information obtainable from: Product Safety Department

Information in case of emergency: + 49 70024112112 (CH)

2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids, Category 2	H225	
Skin corrosion/irritation, Category 2	H315	Calculation method
Serious eye damage/eye irritation, Category 2	H319	Calculation method
Sensitisation — Respiratory, Category 1	H334	Calculation method
Sensitisation — Skin, Category 1	H317	Calculation method
Carcinogenicity, Category 2	H351	Calculation method
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336	Calculation method
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335	Calculation method
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412	

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Suspected of causing cancer. May cause drowsiness or dizziness. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin

reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful to aquatic life with long lasting effects.

Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

butanone, ethyl methyl ketone; methylenediphenyl diisocyanate; Hexane, 1,6-diisocyanato-, homopolymer

Hazard statements

H225 - Highly flammable liquid and vapour

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P284 - [In case of inadequate ventilation] wear respiratory protection

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P405 - Store locked up

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements: EUH204 - Contains isocyanates. May produce an allergic reaction

Child-resistant fastening: Not applicable

Tactile warning: Applicable

Other hazards: No additional information available

3- COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable

Mixture

Chamäleon GmbH- Safety Data Sheet

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
butanone, ethyl methyl ketone	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3 (REACH-no) 01-2119457290-43	40 - 60	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1 (REACH-no) 01-2119485493-29	5 - 15	Flam. Liq. 3, H226 STOT SE 3, H336
methylenediphenyl diisocyanate (Note C)(Note 2)	(CAS No) 26447-40-5 (EC no) 247-714-0 (EC index no) 615-005-00-9 (REACH-no) 01-2119457015-45	4 - 7	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317
Hexane, 1,6-diisocyanato-, homopolymer	(CAS No) 28182-81-2 (REACH-no) 01-2119485796-17	2 - 5	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335
Silane, trimethoxy[3-(oxiranylmethoxy)propyl]-	(CAS No) 2530-83-8 (REACH-no) 01-211937949916	< 2.5	Eye Dam. 1, H318
2-methoxy-1-methylethyl acetate	(CAS No) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7 (REACH-no) 01-2119475791-29	< 2	Flam. Liq. 3, H226
dibutyltin dichloride, (DBTC) substance listed as REACH Candidate (Dibutyltin dichloride (DBTC))	(CAS No) 683-18-1 (EC no) 211-670-0 (EC index no) 050-022-00-X (REACH-no) 01-2119496066-31	< 0.1	Muta. 2, H341 Repr. 1B, H360FD Acute Tox. 2 (Inhalation), H330 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 STOT RE 1, H372 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
methylenediphenyl diisocyanate	(CAS No) 26447-40-5 (EC no) 247-714-0 (EC index no) 615-005-00-9 (REACH-no) 01-2119457015-45	(C \geq 0.1) Resp. Sens. 1, H334 (C \geq 5) STOT SE 3, H335 (C \geq 5) Skin Irrit. 2, H315 (C \geq 5) Eye Irrit. 2, H319
dibutyltin dichloride, (DBTC)	(CAS No) 683-18-1 (EC no) 211-670-0 (EC index no) 050-022-00-X (REACH-no) 01-2119496066-31	(0.01 \leq C < 5) Skin Irrit. 2, H315 (0.01 \leq C < 3) Eye Irrit. 2, H319 (3 \leq C < 5) Eye Dam. 1, H318 (C \geq 5) Skin Corr. 1B, H314

Note 2 : The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H-statements: see section 16

4- FIRST - AID MEASURE

Description of first aid measures

First-aid measures general: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries: May cause drowsiness or dizziness.

Symptoms/injuries after inhalation: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/injuries after skin contact: Irritation. May cause an allergic skin reaction.

Symptoms/injuries after eye contact: Eye irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



5- FIRE - FIGHTING MEASURE

Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam. Carbon dioxide.

Special hazards arising from the substance or mixture

Fire hazard: Highly flammable liquid and vapour.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6- ACCIDENTAL RELEASE MEASURE

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures:

Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

For emergency responders

Protective equipment:

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions:

Avoid release to the environment.

Methods and material for containment and cleaning up:

Methods for cleaning up:

Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

Reference to other sections

For further information refer to section 13.

7- HANDLING AND STORAGE

Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures:

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Technical measures:

Ground/bond container and receiving equipment.

Storage conditions:

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Specific end use(s) No additional information available.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

PU WINDSHIELD PRIMER		
EU	Local name	Butanone
EU	IOELV TWA (mg/m ³)	600 mg/m ³
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m ³)	900 mg/m ³
EU	IOELV STEL (ppm)	300 ppm
Austria	Local name	Butanon
Austria	MAK (mg/m ³)	295 mg/m ³
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m ³)	590 mg/m ³
Austria	MAK Short time value (ppm)	200 ppm
Austria	Remark (AT)	H
Belgium	Local name	2-Butanone
Belgium	Limit value (mg/m ³)	600 mg/m ³
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m ³)	900 mg/m ³
Belgium	Short time value (ppm)	300 ppm
Bulgaria	Local name	Метилетилкетон (бутанон)•
Bulgaria	OEL TWA (mg/m ³)	590 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	885 mg/m ³
Croatia	Local name	Butanon (metil-etil-ke-ton)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	600 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	200 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	900 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	300 ppm
Croatia	Naznake (HR)	K, F, Xi EU*
Czech Republic	Local name	2-Butanon

Czech Republic	Expoziční limity (PEL) (mg/m ³)	600 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	203 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	900 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	305 ppm
Czech Republic	Remark (CZ)	S
Denmark	Local name	Butanon (1994)
Denmark	Grænseværdie (langvarig) (mg/m ³)	145 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	EH
Estonia	Local name	2-butanoon
Estonia	OEL TWA (mg/m ³)	600 mg/m ³
Estonia	OEL TWA (ppm)	200 ppm
Estonia	OEL STEL (mg/m ³)	900 mg/m ³
Estonia	OEL STEL (ppm)	300 ppm
Finland	Local name	2-Butanoni
Finland	HTP-arvo (15 min)	300 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
France	Local name	Méthyléthylcétone
France	VME (mg/m ³)	600 mg/m ³
France	VME (ppm)	200 ppm
France	VLE (mg/m ³)	900 mg/m ³
France	VLE (ppm)	300 ppm
Germany	Local name	Butanon
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	600 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	Remark (TRGS 900)	DFG,EU,H,Y
Greece	OEL TWA (mg/m ³)	600 mg/m ³
Greece	OEL TWA (ppm)	200 ppm
Greece	OEL STEL (mg/m ³)	900 mg/m ³
Greece	OEL STEL (ppm)	300 ppm
Hungary	Local name	METIL-ETIL-KETON
Hungary	AK-érték	600 mg/m ³
Hungary	CK-érték	900 mg/m ³
Hungary	Megjegyzések (HU)	b, i; II.1.
Ireland	Local name	Methyl ethyl ketone (MEK)
Ireland	OEL (8 hours ref) (mg/m ³)	600 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (mg/m ³)	900 mg/m ³
Ireland	OEL (15 min ref) (ppm)	300 ppm
Ireland	Notes (IE)	Sk, IOELV
Italy	Local name	Butanone
Italy	OEL TWA (mg/m ³)	600 mg/m ³
Italy	OEL TWA (ppm)	200 ppm

Italy	OEL STEL (mg/m ³)	900 mg/m ³
Italy	OEL STEL (ppm)	300 ppm
Latvia	Local name	2-Butanons (metiletilketons, etilmetilketons)
Latvia	OEL TWA (mg/m ³)	200 mg/m ³
Latvia	OEL TWA (ppm)	67 ppm
Latvia	OEL STEL (mg/m ³)	900 mg/m ³
Latvia	OEL STEL (ppm)	300 ppm
Lithuania	Local name	Butanonas (metiletilketonas)
Lithuania	IPRV (mg/m ³)	600 mg/m ³
Lithuania	IPRV (ppm)	200 ppm
Lithuania	TPRV (mg/m ³)	900 mg/m ³
Lithuania	TPRV (ppm)	300 ppm
Lithuania	NRV (mg/m ³)	0.1 mg/m ³
Lithuania	NRV (ppm)	0.01 ppm
Lithuania	Remark (LT)	J
Luxembourg	Local name	Butanone
Luxembourg	OEL TWA (mg/m ³)	600 mg/m ³
Luxembourg	OEL TWA (ppm)	200 ppm
Luxembourg	OEL STEL (mg/m ³)	900 mg/m ³
Luxembourg	OEL STEL (ppm)	300 ppm
Malta	Local name	Butanone
Malta	OEL TWA (mg/m ³)	600 mg/m ³
Malta	OEL TWA (ppm)	200 ppm
Malta	OEL STEL (mg/m ³)	900 mg/m ³
Malta	OEL STEL (ppm)	300 ppm
Netherlands	Local name	2-Butanon
Netherlands	Grenswaarde TGG 8H (mg/m ³)	590 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	900 mg/m ³
Netherlands	Remark (MAC)	H
Poland	Local name	Butan-2-on
Poland	NDS (mg/m ³)	450 mg/m ³
Poland	NDSch (mg/m ³)	900 mg/m ³
Portugal	Local name	Metiletilcetona (MEK) (2-Butanona)
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	300 ppm
Slovenia	Local name	butanol (etilmetilketon)
Slovenia	OEL TWA (mg/m ³)	600 mg/m ³
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m ³)	900 mg/m ³
Slovenia	OEL STEL (ppm)	300 ppm
Spain	Local name	Metiletilcetona (Butanona)
Spain	VLA-ED (mg/m ³)	600 mg/m ³
Spain	VLA-ED (ppm)	200 ppm

Spain	VLA-EC (mg/m ³)	900 mg/m ³
Spain	VLA-EC (ppm)	300 ppm
Spain	Notes	VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.)
Sweden	Local name	Methyl ethyl ketone
Sweden	nivågränsvärde (NVG) (mg/m ³)	150 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	300 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	100 ppm
Sweden	takgränsvärde (TGV) (mg/m ³)	0.05 mg/m ³
Sweden	takgränsvärde (TGV) (ppm)	0.005 ppm
United Kingdom	Local name	Butan-2-one (methyl ethyl ketone)
United Kingdom	WEL TWA (mg/m ³)	600 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	899 mg/m ³
United Kingdom	WEL STEL (ppm)	300 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2)
Norway	Local name	Butanon
Norway	Grenseverdier (AN) (mg/m ³)	220 mg/m ³
Norway	Grenseverdier (AN) (ppm)	75 ppm
Norway	Merknader (NO)	A
Switzerland	Local name	2-Butanone
Switzerland	VME (mg/m ³)	590 mg/m ³
Switzerland	VME (ppm)	200 ppm
Switzerland	VLE (mg/m ³)	590 mg/m ³

Switzerland	VLE (ppm)	200 ppm
Switzerland	Remark (CH)	15 min
Australia	Local name	Methyl ethyl ketone (MEK)
Australia	TWA (mg/m ³)	445 mg/m ³
Australia	TWA (ppm)	150 ppm
Australia	STEL (mg/m ³)	890 mg/m ³
Australia	STEL (ppm)	300 ppm
USA - ACGIH	Local name	Methyl ethyl ketone (MEK)
USA - ACGIH	ACGIH TWA (ppm)	200 ppm
USA - ACGIH	ACGIH STEL (ppm)	300 ppm
USA - ACGIH	Remark (ACGIH)	URT irr; CNS & PNS impair

Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: Wear respiratory protection

Environmental exposure controls: Avoid release to the environment.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	
General Information	
Appearance:	<i>Liquid</i>
Physical state:	<i>Liquid</i>
Colour:	<i>Black</i>
Odour:	<i>Characteristic</i>
Odour threshold:	<i>No data available</i>
pH:	<i>No data available</i>
Change in condition	
Melting point:	<i>Not applicable</i>
Freezing point:	<i>No data available</i>
Boiling point:	<i>79 °C</i>
Flash point:	<i>-8 °C</i>
Flammability (solid, gas):	<i>Not applicable.</i>
Relative vapour density at 20 °C:	<i>0.9</i>
Relative density:	<i>No data available</i>
Decomposition temperature:	<i>No data available</i>
Auto-ignition temperature:	<i>>200 °C</i>
Oxidising properties:	<i>No data available</i>

Explosive properties:	<i>No data available</i>
Explosive limits:	<i>1.8 vol % 11.5 vol %</i>
Vapour pressure:	<i>No data available</i>
Relative evaporation rate (butyl acetate=1):	<i>No data available</i>
Solubility:	<i>No data available</i>
Log Pow:	<i>No data available</i>
Viscosity:	
Dynamic:	<i>20 mPa.s</i>
Kinematic:	<i>No data available</i>
Other information:	
VOC content:	<i>< 76 %</i>

10- STABILITY AND REACTIVITY

Reactivity:

Highly flammable liquid and vapour.

Chemical stability:

Stable under normal conditions.

Possibility of hazardous reactions:

No dangerous reactions known under normal conditions of use.

Conditions to avoid:

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials:

No additional information available

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11- TOXICOLOGICAL INFORMATION

Acute toxicity: Not classified

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

12 – ECOLOGICAL INFORMATION

Toxicity

Ecology - general: Harmful to aquatic life with long lasting effects.

Persistence and degradability:

No additional information available

Bioaccumulative potential:

No additional information available

Mobility in soil:

No additional information available

Results of PBT and vPvB assessment:

Component	
dibutyltin dichloride, (DBTC) (683-18-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

Other adverse effects:

No additional information available

13– DISPOSAL CONSIDERATION

Waste treatment methods

Waste treatment methods:

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information:

Flammable vapours may accumulate in the container.

14– TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

UN number

UN-No. (ADR):	1866
UN-No. (IMDG):	1866
UN-No. (IATA):	1866
UN-No. (ADN):	1866

UN-No. (RID): 1866

UN proper shipping name

Proper Shipping Name (ADR):	RESIN SOLUTION
Proper Shipping Name (IMDG):	RESIN SOLUTION
Proper Shipping Name (IATA):	Resin solution
Proper Shipping Name (ADN):	RESIN SOLUTION
Proper Shipping Name (RID):	RESIN SOLUTION
Transport document description (ADR):	UN 1866 RESIN SOLUTION, 3, II, (D/E)
Transport document description (IMDG):	UN 1866 RESIN SOLUTION, 3, II
Transport document description (IATA):	UN 1866 Resin solution, 3, II
Transport document description (ADN):	UN 1866 RESIN SOLUTION, 3, II
Transport document description (RID):	UN 1866 RESIN SOLUTION, 3, II

Transport hazard class(es)

ADR

Transport hazard class(es) (ADR): 3
 Danger labels (ADR): 3



IMDG

Transport hazard class(es) (IMDG): 3
 Danger labels (IMDG): 3



IATA

Transport hazard class(es) (IATA): 3
 Hazard labels (IATA): 3



ADN

Transport hazard class(es) (ADN): 3
 Danger labels (ADN): 3



RID

Transport hazard class(es) (RID): 3



Danger labels (RID):

3

**Packing group**

Packing group (ADR):

II

Packing group (IMDG):

II

Packing group (IATA):

II

Packing group (ADN):

II

Packing group (RID):

II

Environmental hazards

Dangerous for the environment:

No

Marine pollutant:

No

Other information:

No supplementary information available

Special precautions for user**- Overland transport**

Classification code (ADR):

F1

Special provisions (ADR):

640C

Limited quantities (ADR):

51

Excepted quantities (ADR):

E2

Packing instructions (ADR):

P001

Special packing provisions (ADR):

PP1

Mixed packing provisions (ADR):

MP19

Portable tank and bulk container instructions (ADR):

T4

Portable tank and bulk container special provisions (ADR):

TP1, TP8

Tank code (ADR):

L1.5BN

Vehicle for tank carriage:

FL

Transport category (ADR):

2

Special provisions for carriage - Operation (ADR):

S2, S20

Hazard identification number (Kemler No.):

33

Orange plates:



Tunnel restriction code (ADR):

D/E

EAC code:

•3YE

- Transport by sea

Limited quantities (IMDG):

5 L

Excepted quantities (IMDG):

E2

Packing instructions (IMDG):

P001

Special packing provisions (IMDG):

PP1

IBC packing instructions (IMDG):	IBC02
Tank instructions (IMDG) :	T4
Tank special provisions (IMDG):	TP1, TP8
EmS-No. (Fire):	F-E
EmS-No. (Spillage):	S-E
Stowage category (IMDG):	B
Properties and observations (IMDG):	Miscibility with water depends upon the composition.
MFAG-No:	127;128

- Air transport

PCA Excepted quantities (IATA):	E2
PCA Limited quantities (IATA):	Y341
PCA limited quantity max net quantity (IATA):	1L
PCA packing instructions (IATA):	353
PCA max net quantity (IATA):	5L
CAO packing instructions (IATA):	364
CAO max net quantity (IATA):	60L
Special provisions (IATA):	A3
ERG code (IATA):	3L

- Inland waterway transport

Classification code (ADN):	F1
Special provisions (ADN):	640D
Limited quantities (ADN):	5 L
Excepted quantities (ADN):	E2
Equipment required (ADN):	PP, EX, A
Ventilation (ADN):	VE01
Number of blue cones/lights (ADN):	1

- Rail transport

Classification code (RID):	F1
Special provisions (RID):	640D
Limited quantities (RID):	5L
Excepted quantities (RID):	E2
Packing instructions (RID):	P001, IBC02, R001
Special packing provisions (RID):	PP1
Mixed packing provisions (RID):	MP19
Portable tank and bulk container instructions (RID):	T4
Portable tank and bulk container special provisions (RID):	TP1, TP8
Tank codes for RID tanks (RID):	LGBF
Transport category (RID):	2
Colis express (express parcels) (RID):	CE7
Hazard identification number (RID):	33

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

Not applicable

15 – REGULATORY INFORMATION

health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: Dibutyltin dichloride (DBTC) (EC 211-670-0, CAS 683-18-1)

Contains no REACH Annex XIV substances

VOC content: $< 76\%$

National regulations

Germany

VwVwS Annex reference:

Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV:

Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen:

None of the components are listed

SZW-lijst van mutagene stoffen:

None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding:

None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid:

dibutyltin dichloride, (DBTC) is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling:

dibutyltin dichloride, (DBTC) is listed

Denmark

Recommendations Danish Regulation:

Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Persons suffering from asthma or eczema and persons who have chronic lung diseases, skin or respiratory allergies to isocyanates should not work with the material

The requirements from the Danish Working Environment Authorities regarding work with epoxy resins and isocyanates must be observed during use and disposal

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Chemical safety assessment:

No chemical safety assessment has been carried out.

16-OTHER INFORMATION

Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Sensitisation — Respiratory, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H360FD	May damage fertility. May damage the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
EUH204	Contains isocyanates. May produce an allergic reaction



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The information contained in these sheets is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects and should not be construed as any guarantee of technical performance or suitability for particular applications.