PLASTIDITE

SAFETY DATA SHEET of PRODUCT

Total Pages: N° 19
Revision: CLP **1.2**

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

1.1 Product identifier

Commercial name : COLLACRYL K 450

1.2 Relevant identified uses of the mixture and uses advised against

Intended use : Adhesive for bonding of plastic materials
: Industrial and professional use

Not intended use : Private consumer

Motivation of adviced against use : Dangerous product for the presence of substances subject to professional limits of exposure.
For further information refer to Annex Exposure Scenarios.

1.3 Details of Safety Data Sheet supplier

Manufacturer : PLASTIDITE S.r.l.
Address : Trieste (Italy)
34018 San Dorligo della Valle
via Travnik 12
Phone +39 040 820144
Fax +39 040 381172
E-Mail: plastidite@plastidite.com

Compilation manager : Mr. G.Tlustos
E-Mail: plastidite@plastidite.com

1.4 Emergency telephone number

Phone +39 040 820144
Available only during the following office hours:
08.00-16.00 Monday to Friday
General information
Service in the following languages: English
Slovenian
Croatian
French

SECTION 2. Hazards identification

2.1 Mixture classification according to Regulation EC 1272-2008

The mixture is classified as hazardous.

Flammable liquid and vapours	Flammable Liquid	3	H 226
Harmful if swallowed	Oral Toxicity	4	H 302

2.2 Label elements

Labelling according to Regulation EC 1272-2008

GHS hazard pictograms


Signal word	:	Danger	
Hazard statements	:	H 226	Flammable liquid and vapour
		H 302	Harmful if swallowed
Precautionary statements:			
Prevention	:	P 210	Keep away from heat/sparks/open flames/heated surfaces. Do not smoke
		P 235	Store in a cool place
		P 280	Wear protective gloves/protective clothing/eye protection/ face protection
Reaction	:	P 303	In case of skin contact Wash thoroughly with water and soap (P 352)
Storage	:	P 410	Protect from sunlight
Disposal	:	P 501	Dispose of contents/container according to local regulation
Additional information	:		None

2.3 Other hazards

The mixture satisfies the evaluation criteria for PBT and vPvB substances in accordance with annex XIII of EC Regulation 1907-2006 (REACH) modified by Regulation EC 253-201.

No substance classified PBT (Persistent, Bioaccumulating and Toxic).
No substance classified vPvB (very persistent and very Bioaccumulating).

No substance of the product is present in the "Candidate List" referred to in Annex XIV to Regulation EC 143-2011 (SVHC).

SECTION 3. Composition/Information on ingredients

3.1 Mixtures

3.1.1 Description of the mixture

Acrylic copolymer solution based on organic solvents and additives.

3.1.2 Hazardous ingredients

N° CAS CE REACH	% in weight	Substance name	Classification 1272-2008 CE (CLP) Phrase	 Category
75-52-5 200-876-6 not available	70 - 85	nitromethane	H 226 Flammable Liquid H 302 Oral Toxicity	3 4

H 226 Flammable liquid and vapour
H 302 Harmful if swallowed

SECTION 4. First aid measures

4.1 Description of first aid measures

4.1.1 General notes

In case of doubt, or when symptoms persist, contact a doctor.
Effects after the exposure may be possible.
It is advisable to move the exposed person to fresh air.
Remove contaminated clothing and shoes.
The person who provides the first aids has preferably to wear gloves.
Do not drink nor eat nor smoke.

4.1.2 Inhalation

Remove the victim to fresh air and keep at rest and warm.
Keep a position comfortable for breathing.
In case of persistent sickness contact a doctor.

4.1.3 Skin contact

Remove contaminated clothing and wash with water and soap.
In case of persistent skin irritation contact a doctor.
Delayed effects to exposure may be possible.
Same procedure for the hair.

4.1.4 Eye contact

Immediately rinse with lukewarm water with eyelids well open.
Wash the hands with water and soap and remove possible contact lenses if possible.
In case of persistent irritation contact a doctor.

4.1.5 Ingestion

Rinse the mouth, do not induce vomiting.
Request medical assistance.

4.2 Main symptoms and effects both acute and delayed

Nausea, diarrhea, headache, daze, skin and eye irritation, possible respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

None necessary.

SECTION 5. Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Foam, dry powder or CO_2 , water spray.
Possible cooling with water of heat exposed containers.

5.1.2 Unsuitable extinguishing media

Direct water.
Dry powder extinguishers containing sodium or potassium bicarbonate.

5.2 Special hazards arising from the substance or mixture

The product and its highly flammable vapours.

In the event of fire, carbon monoxide, carbon dioxide and organic products of decomposition may be released.

5.3 Advice for firefighters

Use the following protections:

Self-Contained Breathing Apparatus (SCBA) with chemical-resistant gloves.
Anti-accident boots resistant to solvents and chemicals: pay attention to slipping.
Head protective helmet.

Materials generally suitable for chemical agents are neoprene and vinyl rubber.
No protective clothing can provide total protection against various chemicals.

Appropriate individual protective equipment and in compliance with EN 469.

Isolate the area involved by unrelated people.

All methods in order to prevent the outflow of fire-resistant materials and of water in the drains and/or water course are strongly recommended.

Where possible use absorbent fire-resistant material (see Section 6.3).

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment expected (see Section 8).

Remove all sources of ignition.

Ensure adequate ventilation and dust control.

Evacuate the danger area and consult a Security Manager.

Avoid breathing vapors and provide adequate ventilation.

6.2 Environmental precautions

Spills from accidental release should be controlled in order not to disperse in the environment.
Prevent leakages in drains, surface waters and groundwater.
Control possible spills in the ground.

Where possible use absorbent fire-resistant material (see Section 6.3).

In case of spills out of control and soil water contamination alert the authorities.

6.3 Methods and materials for containment and cleaning up

Immediately arrange what possible in order to avoid uncontrollable spillages into the environment : plug the sewers and create collection bumps or barriers with not flammable material.

Use not flammable inert absorbent materials such as sand, kieselguhr, anti-slip synthetic fire-retardant and chemical resistant cloths (recommended in polypropylene).

NEVER use sawdust or wood shavings (flammables).

Use only not sparking tools.

Collect manually the material and clean the area with a watery cleanser avoiding the use of thinners.
Do NOT use electric vacuum cleaners, avoid compressed air jets that would cause dispersion in the air.

Use a solid container for to hazardous wastes equipped with a lid well closable for the following disposal.

Hazardous wastes must be disposed through authorized firms (see Section 13).

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Use only working tools that satisfy electrical requirement for the use with flammable products.
Make sure that the area where you use the product is equipped with an electrical system adequate to the use of flammable materials.

Avoid flames and sparks, avoid the accumulation of electrostatic charges, do not smoke.

The working area should be adequately ventilated.
In order to reduce the formation of aerosol during the use of the product, provide localized aspirations on the working place in order to maintain the parameters of exposure within the professional limits (see Section 8).
Monomer vapours can form polymers in the vents blocking their correct functioning.
Monomer vapours are heavier than air : pay attention to a proper aspiration and closed spaces.

Avoid contact with skin and eyes: wear individual protection (see Section 8).

Provide the area for the product use, with everything required for environmental protection.
Keep available possible spillages control materials, suitable containers for hazardous wastes and everything needed to prevent the product from flowing into the sewers. (references Section 7).

Do not eat, nor drink nor smoke on the working area.

Remove working clothes and protective equipment before entering dining areas.
Immediately wash your hands carefully after handling the product, rinse the face is also recommended.

7.2 Conditions for safe storage, included possible incompatibilities

Personnel charged of storage operations must have access to personal protection equipment in case of some accidental spillages due to packages breaks (see Section 8).

Keep packages always away from possible ignition sources, static electricity, sparks and do not smoke on the premises.

Always store the product in tightly sealed original bottles at maximum temperatures of about 25° C.

Keep the boxes so that the bottles are in vertical position, do not stack to overload the loading beds.
The product is packed in cartons containing 6 bottles of 1 litre aluminium with plastic screw sealed cap.

Keep away from foodstuffs.

Avoid contact with oxides and salts of heavy metals.

The areas assigned as product storage have to satisfy the general rules for flammable materials and the specifications expected in such case for electrical systems.
The storage must have an appropriate ventilation.
In the areas it must be kept into consideration the possible protection on sewers.

The places must have the materials expected for possible accidental spillages and for resultant hazardous waste disposal (reference Section 6).

Access denied to unauthorized persons.
Advised specific danger signs on the places.

7.3 End Uses specific

Follow end uses (see Section 1.2).
IU3 : industrial end use (refer to Annex Exposure Scenarios).
IU6 : service life in articles

SECTION 8. Exposure control/Personal protection

8.1 Control parameters

8.1.1 Professional exposure limits

Substance : Nitromethane
CAS N° : 75-52-5

OEL

Nation	OEL Limit value (8 hours) Long Term Exposure Limit ppm	mg/m^3	OEL Limit value (15 min) Short Term Exposure Limit ppm	mg/m^3	Notes	Legal basis
EU	100	250	Not established	375	TWA - STEL	

DNEL

Exposure methods	local acute DNEL effetcs	systemic acute DNEL effects	local chronic DNEL effects	systemic chronic DNEL effects
Oral	Not established	Not established	Not established	Not established
Inhalation	Not established	Not established	Not established	Not established
Dermal	Not established	Not established	Not established	Not established

8.1.2 Predicted no effect concentrations

Environmental protection targets Values **PNEC**

Substance : Nitromethane
CAS N° : 75-52-5

Soft water	not estimated
Sea water	not estimated
Sediments	not estimated
Food chain	not estimated
Microorganisms waters treatment	not estimated
Soil (agricultural)	not estimated
Air	not estimated

8.2 Exposure controls

8.2.1 Appropriate technical controls

Avoid these processing to persons with hypersensitivity and/or respiratory and skin allergies.

Do not eat, drink or smoke during job role.

Avoid contact with skin and eyes.

Ensure an adequate air turnover of the workspace.
If the natural ventilation turns out to be insufficient, use a localized aspiration.

Consider specific working procedures and the consequent exposure limit as, in relation to the control parameters (see Section 8.1), they determine the level of personal protection.

8.2.2 Personal protection measures

8.2.2.1 Eyes and face protection

Protective glasses are recommended in order to avoid spurts in the eyes.

8.2.2.2 Skin protection

Wear butylic rubber gloves (EN 374 : minimum thickness 0,7 mm, time penetration 60 min).
Suitability individual tests must be performed as the data are approximate.

Replace the gloves at first signs of usury and/or damage.
Regularly change the gloves especially after frequent use.

Wash your hands carefully after handling the product, also recommended to rinse your face.

8.2.2.3 Respiratory Protection

Use a respiratory protection if technical conditions (see Section 8.2.1) are not adequate.
Use respiratory filter type A for short processings (EN 141-405).

8.2.2.4 Thermal hazards

None particular.
Follow the precautions of flammability (see Section 7.1) and fire (see Section 5.2).

8.2.3 Environmental exposure controls

Follow the technical controls (see Section 8.2.1).
Follow the precautions of flammability (see Section 7.1).
Follow the fire measures (see Section 5.2).

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Data related to nitromethane substance, if not available for the mixture.

Appearance	:	fluid viscous
Physical state	:	liquid
Odour		caracteristic
Odour threshold	:	not available
pH	:	not applicable
Melting point / Freezing point	:	- 28,6 °C
Initial boiling point	:	80 °C (1,013 hPa)
Boiling range	:	80 - 244 °C (1,013 hPa)
Flash point	:	31 °C (closed cup)
Evaporation rate	:	139 (n-butylacetate = 100)
Flammability (solid / gas)	:	not applicable
Lower flammability	:	7,3% (V) to 10 °C
Upper flammability	:	63,0% (V)
Vapour pressure	:	≅ 17 kPa at 50°C
Vapour density (air = 1)	:	2,11
Relative density	:	≅ 1,10 g / ml at 20°C
Solubility (water)	:	≅10,5 % at 20 °C
Solubility (other)	:	miscible with the greater part of organic solvents
Partition coefficient octanol / water	:	0,35 log Kow
Auto-ignition temperature	:	418 °C
Decomposition temperature	:	not applicable
Viscosity	:	900 - 1200 mPa*s at 20°C
Explosive properties	:	not applicable
Oxidizing properties	:	not applicable

9.2 Other information

None.

SECTION 10. Stability and reactivity

10.1 Reactivity

Stable in normal conditions of handling and storage (see Section 7).

10.2 Chemical stability

Stable in normal conditions of handling and storage (see Section 7).

10.3 Possibility of hazardous reactions

Avoid mixture with strong alkaline substances or amines, mercuric oxide, heavy metal oxides such as those of mercury, silver and lead, acids, ammonia, anilines, halogenated compounds, acetone (see Sections 7 and 9.2).

10.4 Conditions to avoid

Follow the listed instructions (see Sections 7, 8.2.1 and 9.2).

10.5 Incompatible materials

Oxides and salts of heavy metals.
Amino substances.
Alkaline products.
Strong acids products.
Copper, lead end alloys.

10.6 Hazardous decomposition products

It does not decompose if employed for the intended uses (see Section 1.2) and in the described normal conditions of handling and storage (see Section 7).

SECTION 11. Information on toxicological effects

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Substance : Nitromethane
CAS N° : 75-52-5

Method	:	RTECS
Species	:	rat
Exposure method	:	oral
Dose effect	:	LD_{50} = 940 mg/kg
Exposure duration	:	not available
Results	:	Nausea, vomit and diarrhea

Method	:	not available
Species	:	rat
Exposure method	:	inhalation
Dose effect	:	
Exposure duration	:	
Results	:	May cause respiratory irritation

Method	:	IUCLID
Species	:	rabbit
Exposure method	:	cutaneous
Dose effect	:	LD_{50} > 2000 mg/kg
Exposure duration	:	not available
Results	:	Not irritating

11.1.2 Corrosion/cutaneous irritation

Substance : Nitromethane
CAS N° : 75-52-5

Method	:	IUCLID
Species	:	rabbit
Results	:	Not irritating

11.1.3 Serious ocular lesions/serious ocular Irritations

Substance : Nitromethane
CAS N° : 75-52-5

Method	:	IUCLID
Species	:	rabbit
Results	:	Not irritating

11.1.4 Respiratory sensitization

Substance : Nitromethane
CAS N° : 75-52-5

Method	:	IUCLID
Species	:	guinea pig
Results	:	Not irritating

11.1.5 Cutaneous sensitization

Substance : Nitromethane
CAS N° : 75-52-5

Method	:	IUCLID
Species	:	guinea pig
Results	:	Not irritating

11.1.6 Germ cells mutagenicity

Substance : Nitromethane
CAS N° : 75-52-5

Method	:	AMES
Species	:	not available
Results	:	Negative

11.1.7 Carcinogenicity

Substance : Nitromethane
CAS N° : 75-52-5

Method	:	AMES
Species	:	not available
Results	:	Negative

11.1.8 Toxicity for reproduction

Substance : Nitromethane
CAS N° : 75-52-5

Method	:	AMES
Species	:	not available
Results	:	Negative

11.1.9 Summary of the CMR properties evaluation

Not dangerous.

11.1.10 Specific target organs toxicity (STOT) - single exposure

Substance : Nitromethane
CAS N° : 75-52-5

Way of exposure	:	oral
Results	:	Not dangerous
Ways of exposure	:	inhalation
Results	:	Not dangerous
Way of exposure	:	cutaneous
Results	:	Not dangerous

11.1.11 Specific target organs toxicity (STOT) - repeated exposure

Substance : Nitromethane
CAS N° : 75-52-5

Method	:	not available

Species	:	
Exposure method	:	oral
Dose effect	:	
Exposure duration	:	
Results	:	Not dangerous

Method	:	not available
Species	:	
Exposure method	:	inhalation
Dose effect	:	
Exposure duration	:	
Results	:	Not dangerous

Method	:	not available
Species	:	
Exposure method	:	cutaneous
Dose effect	:	
Exposure duration	:	
Results	:	Not dangerous

11.1.12 Danger in case of aspiration

No warning with regard to critical characteristics.

11.1.13 Interactive effects

Data not available.
The different substances of a mixture can interact between them in the organism giving origin to various rates of absorption, metabolism and excretion. Consequently the toxic action can be altered and the total toxicity of the mixture can be different from that of the contained substances.

11.1.14 Absence of specific data

Specific information on such mixture are not available.
The information are based on the toxicological behavior of the main components (see Section 3).

SECTION 12. Ecological information

12.1 Toxicity

12.1.1 Toxicity (short term) acute

Substance : Nitromethane
CAS N° : 75-52-5

Fishes	: LC_{50} = 460 mg/l	48 hours	OECD 203	Danio rerio
Shellfishes	: EC_{50} = 450 mg/l	24 hours	OECD 202	Daphnia magna
Aquatic algae-plants	: EC_{50} = 36 mg/l	72 hours	OECD 201	Desmodesmus subspicatus
Other organisms	: EC_3 = 5621 mg/l	30 min		Photobacterium phosphoreum
Results	: Not available			

12.1.2 Toxicity (long term) chronic

Substance : Nitromethane
CAS N° : 75-52-5

Fishes	: Not available
Shellfishes	: Not available
Aquatic algae-plants	: Not available
Other organisms	: Not available
Results	: Not available

12.2 Persistence and degradability

Substance : Nitromethane
CAS N° : 75-52-5

Biotic degradation	: Not available		
Abiotic degradation	: Not available		
Physical and photochemical elimination	: Not available		
Biodegradability	: 10 %	28 days	OECD 301 C
Results	: Not easily biodegradable		

12.3 Bioaccumulative potential

Substance : Nitromethane
CAS N° : 75-52-5

BCF factor	: Not available
Results	: Low bioaccumulation potential estimated

12.4 Mobility in soil

Substance : Nitromethane
CAS N° : 75-52-5

Surface tension	: Not available
Absorption/Desorption	: Not available
Results	: Not available

12.5 Results of PBT evaluation

The product does not contain SVHC substances (substances of very high concern) or estimated as PBT (persistent, bioaccumulative and toxic substances) or estimated as vPvB (very persistent and very bioaccumulative substances).

12.6 Other adverse effects

Other adverse effects for the substances of the mixture have not been identified.

12.7 Additional information

The product satisfies the directive UE 2011-65, entitled RoHS 2, concerning the restriction of certain dangerous substances in the electronic and electrical equipment (AEE).

With reference to art. 6 "review and modify of the list of substances with use restrictions" listed in annex II, the following dangerous substances are:

Substance	MCVs %
Lead	< 0,1
Mercury	< 0,1
Cadmium	< 0,01
Chromium VI	< 0,1
Biphenyl Polybromurates (PBB)	< 0,1
Ethers of diphenyl polibromurates (PBDE)	< 0,1

It follows that the product complies with EU Directive 2011-65 (RoHS 2).

SECTION 13. Disposal considerations

13.1. Waste treatment methods

13.1.1 Product/packaging disposal

Waste processing residues are hazardous waste.

Dispose as hazardous waste through authorized companies in facilities suitable for their treatment.

Observe the special waste regulations in agreement with the competent authorities.

Not purified packaging, not completely cleaned from the contained product, must be disposed like the product itself, that is in quality of dangerous wastes.

Only not contaminated packaging, but only fully cleaned can be recycled.
The cardboard packaging can be disposed normally, making sure they are not dirty by any accidental spillage of product.
The type of packaging is described in Section 7.2.

Avoid to pour into unsuitable and possibly contaminated containers with substances that can trigger chemical reactions (see Sections 9.2 and 10.5).
Waste containers may be done of aluminium, steel or polyethylene, and shall meet the requirements of product transport (see Section 14) or hazardous waste (see Section 13.1.2).

13.1.2 Waste treatment/relevant information

Waste adhesives must be disposed by companies authorized to transport hazardous waste with the encoding of the European List of Wastes:

LoW code: 08 04 09*
Waste description: adhesive and waste sealing containing organic solvents or other dangerous substances

13.1.3 Disposal through sewage

Waste should not be disposed through sewage release.

13.1.4 Other recommendations for disposal

Follow the safe handling and storage product regulations also for waste (see Section 7).

SECTION 14. Transport information

14.1 ONU number

UN number : 1133

14.2 ONU shipping name

Name : ADHESIVES

14.3 Hazard classes for transportation

ADR - RID Land transport

Class : 3
Classification code : F 1
Packaging group : III
Transport Category : 3
Tunnel restriction code : D / E

IMDG IMO Marine transport

Class	:	3.3
Marine Pollutant	:	No
Packing Groups	:	III
Proper shipping name	:	Flammable Liquids N.O.S. (Nitromethane) UN 1133
Segregation	:	Not available

ICAO - TI Air transport

Class	:	3
Packaging group	:	III
Name	:	ADHESIVES containing flammable liquid

14.4 Special precautions for users

Follow the handling and storage instructions (see section 7).

14.5 Transport in a jumble in compliance with Attachment II of MARPOL 73/78 and code IBC

No pertinent information.

SECTION 15. Regulatory information

15.1 Rules and legislation on safety, health and the environment, specific for the mixture

EU Regulations

Regulations 1907-2006 EC (REACH) and Modifications 453-2010 EC, 253-2011 EC
Regulation 1272-2008 EC (CLP)
Regulation 143-2011 EC (SVHC)
Directive 67-548 EEC “Dangerous substances “
Directive 1999-45 EC “Dangerous preparations“
Directive 98-24 EC “Chemical agents “
Directives 2000-39 EC, 2006-15 EC, 2009-161 EU “Limits of professional exposure “
Directive 89-686 EEC “Individual protection systems“
Directives 2006-12 EC, 2008-98 EC “Waste“

Other EU Regulations

Directive 2004-37 EC "Workers protection from carcinogenic risks “
Directive the 92-85 EEC "Female workers safety improvement"
Directive 94-33 EC “Protection on young people job“
Directives 96-35 EC, 2000-18 EC “Transport methods classification “
Regulations 2004-648 EC “Detergent regulations “
Directive 2011-65 EU (RoHS 2) “Restriction substances in equipment electrical workers “

15.2 Chemical safety evaluation

An estimation of chemical safety has been carried out for this mixture.

SECTION 16. Other information

16.1 Modifications indications

Review CLP N° **1.2**

Date 10-25-17

Modified Sections: **9.1 , 14.3 .**

Modifications Description : transport information.

16.2 Abbreviations and acronyms

ADR	Accord Dangereuses Route
BCF	Bioconcentration factor
CAS	Chemical Abstarcts Service
CLP	Classification Labelling and Packaging regulation
DNEL	Derived No Effect Level
EC_x	Effective Concentration with X% response
ES	Exposure Scenarios
EWC	European Waste Catalogue
GHS	Globally Harmonized System of classification and labelling of chemicals
ICAO-TI	International Civil Aviation Organization Technical Instructions
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IOELV	Indicative Occupational Exposure Limit
LC_x	Lethal Concentration with X% response
LD_x	Lethal Dose with X% response
LoW	List of Wastes regulation codes
MCVs	Maximum Concentration Values in homogeneus material
N.O.S.	Not Otherwise Specified
NOAEC	No Observable Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEL	No Observable Effect Level
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative and Toxic
PEC	Predicted Effect Concentration
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Règlement International Dangereuses trasport ferroviaire
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
SVHC	Substance of very high concern
TWA	Time Weighted Average
vPvB	very Persistent and very Bioaccumulative
WELs	Workplace Exposure Limits (UK)

16.3 Classification and procedure used

The classification of the product has been executed in compliance with art. 9 of Regulation EC 1272-2008 (CLP).

16.4 Training advice

We recommend a training of personnel involved in the use of dangerous products in specific work environments and related use conditions for security purpose.

The employers allow workers and their representatives to have access to the information supplied in relation to the products used or to which they can be exposed during their professional activity.

16.5 Further information

The present information are based on the actual state of our knowledge.

The present sheet has been draft and it's valid only for this product.

The product users have the duty to make sure about the suitability for any specific use.

The product must be used in accordance with the description (see Section 1.2).

The product doesn't have to be used in any way expecting the insertion in the human body, in contact with fluid or tissue inside the body.

Our company assumes no responsibility for improper uses than those described, or for mixing with different products that we do not known and unauthorized by us.

Working conditions existing by the user are out of our knowledge and control, therefore they are under his complete responsibility.

Users are fully responsible for the laws in force regarding the safety with the use of hazardous products in the workplace.

The user has the burden of inspection and checking the suitability and conformity of the incoming goods.

These information do not involve any responsibility and/or warranties, expressed or implied, about the quality and features of the product.

These information do not involve taking any obligation or responsibility by our part, also in presence of intellectual property rights of third parties and, in particular, of patent rights.

Our company reserves the right to make any changes to the products arising from technological progress or further development activities.

ANNEX EXPOSURE SCENARIO
GES 10

1. Short title

Generic Exposure Scenario 10 (GES 10)

Indoor use with limited opportunity for exposure

2. Description of activities / processes covered in the Exposure Scenario

2.1 Product categories

PC 1 : Adhesives and sealants

2.2 End Uses

IU 3 : Industrial end use
IU 6 : Service life in articles

2.3 Process categories

PROC 21 : Low energy manipulation of substances bound in form of materials or articles

2.4 Environmental release categories

ERC 6c : Industrial use of monomers for polymerisation
ERC 6d : Industrial use of auxiliares for polymerisation processes in production of resins, rubbers, polymers
ERC 7 : Industrial use of substances in closed systems

2.5 Use Sectors

SU 3 : Industrial Manufacturing (all)

SU 2b : Offshore industries
SU 6a : Manufacture of wood and wood products
SU 12 : Manufacture of plastic products including compounding and conversion
SU 15 : Manufacture of fabricated metal products except machinery and equipment
SU 16 : Manufacture of computer, electronic and optical products, electrical equipment
SU 17 : General manufacturing
SU 18 : Furnitures manufacturing
SU 19 : Building and construction work
SU 20 : Health services
SU 22 : Public domain
SU 24 : Research and scientific development

2.6 Article Categories

AC 1-1 : Passenger cars and motor cycles
AC 1-2 : Railway, aircraft, vessels, boats, trucks and associated transport equipment
AC 2 : Machinery, mechanical appliances, electrical / electronic articles
AC 3-1 : Electrical and electronic products
AC 3-3 : Electrical household appliances
AC 4 : Glass and ceramic articles
AC 7 : Metal articles
AC 10-5 : Other general rubber product
AC 11 : Wood articles
AC 13* : Plastic, small articles

3. Operational Conditions

3.1 Duration and frequency of use

Duration : Dependent upon professional levels (see Section 8).
Dependent upon activity (see Section 4 Exposure Scenario).

Frequency of exposure : daily

Emission days : 300 days / year

4. Other Operational Conditions

4.1 Physical form of product

Liquid

4.2 Concentration of substances in product

Concentration : <= 80 %

4.3 Maximum used amount per day

< 1000 kg / day

4.3.1 Risk Management (RMM)

Concentration : 0 – 5 %
Duration : 0 – 8 hours
Process : Industrial PROC 21
RMM : No identified
ECETOC Model : Not available for volatiles substances

4.3.2 Operational conditions related to environment

Mixture indoor used and related handling.

4.3.4 Annual amount used per site

Quantity : <= 260 kte / year

5. Other operational conditions determining exposure

Room size : > 20 m^3 (estimated)

Ventilation rate : General ventilation of workplace
5 – 15 air changes per hour recommended for general application

Emissions : Emission by controlled ventilation in order to guarantee the accordance with the legislation of environmental protection
Avoid the discharge in the drains

6. Risk Management Measures (RMM)

6.1 Human health measures

Oral Protection : Do not eat, nor drink nor smoke on the working area.

Dermal Protection : Wear butylic rubber gloves
(EN 374 : minimum thickness 0,7 mm, time penetration 60 min)
Replace the gloves at first signs of usury and/or damage
Regularly change the gloves especially after frequent use
Wash your hands carefully after handling the product

Inhalation Protection : Not available (indoor use with limited oppotunity for exposure)

Eyes Protection : Protective glasses are recommended

6.2 Environment related measures

Air : Environmental control in order to guarantee that the emission does not exceed the limits of professional exposure (see Section 8)

Water : Use appropriate containment to avoid environmental contamination (see Sections 6 and 7)

Soil : Control accidental spills (see Sections 6 and 7)

7. Waste related measures

Waste processing residues are hazardous waste.
Dispose as required (see Section 13).

8. Prediction of exposure resulting from the conditions described above

8.1 Human exposure estimation

	Value			RCR
Dermal concentration	: Not available	mg/kg	bw/day	Not available
Inhalative concentration	: Not available	ppm		Not available
Combined	:			Not available
Evaluation method	: Risk characterisation ratio (RCR) based on DNEL Exposure calculated by ECETOC – TRA			

8.2 Environmental exposure estimation

Concentration	Value		RCR
in air	: Not available	mg/m^3	Not available
in water	: Not available	mg/m^3	Not available
in sediment	: Not available	mg/kg ww	Not available
in soil	: Not available	mg/kg ww	Not available
Evaluation method	: Risk characterisation ratio (RCR) based on PNEC and PEC Calculated by EUSES (local compartments)		

9. Other information

Risk adequately controlled.

During liquid manipulation protective gloves are required.

The values measured may be used to confirm the exposure levels in the extremes of the Exposure Scenario.

PC 1 (adhesives and sealants) : evaluated for higher residual monomer according to ECETOC standard defaults.
For changing specific defaults of the model equation [0,5 >= RCR (dermal / inhalation)* (amount used / default ECETOC)* (duration / dafault ECETOC)* product ingredient / default ECETOC)] has to be satisfied.

Use the exposure assesment tools ECETOC-TRA and EUSES for confirmation that you work inside to boundaries set by the GES (RCR < 1 and PEC / PNEC < 1).