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

1.1 Product identifier

Contact Plus 7 M8-M24

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

1.2.1 Relevant uses

Adhesive

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

TOX-DÜBEL-TECHNIK GmbH
Brunnenstrasse 31
72505 Krauchenwies / GERMANY
Phone +49 (0)7576 9295-123
Fax +49 (0) 7576 / 9295 -190
Homepage www.tox.de
E-mail info@tox.de

Address enquiries to

Technical information info@tox.de

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +49(0)7576 9295-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Skin Sens. 1: H317 May cause an allergic skin reaction.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms

Signal word WARNING

Contains: Ethylene dimethacrylate

Methacrylic acid, monoester with Propan-1,2-diole

Hazard statements

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water / soap.
P501 Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

Human health dangers

People who are allergic to peroxide should avoid the use of the product.
May cause irritation of eye and skin.

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - < 10	Methacrylic acid, monoester with Propan-1,2-diole
	CAS: 27813-02-1
	GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1: H317
1 - < 10	Ethylene dimethacrylate
	CAS: 97-90-5
	GHS/CLP: STOT SE 3: H335 - Skin Sens. 1: H317 - Aquatic Chronic 3: H412
	SCL [%]: >= 10: STOT SE 3: H335
< 1	1-isopropyl-2,2-dimethyltrimethylene diisobutyrate
	CAS: 6846-50-0
	GHS/CLP: Repr. 2: H361 - Aquatic Chronic 3: H412
< 1	Dibenzoyl peroxide
	CAS: 94-36-0
	GHS/CLP: Org. Perox. B: H241 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 10, M-Factor (chronic): 10

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.

Skin contact When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

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.

Ingestion Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.
Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (protective gloves).
Ensure adequate ventilation.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin.

The product is combustible.

Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Do not store together with food and animal food/diet.

Keep in a cool place. Store in a dry place.
Protect from heat/overheating and from sun.
Recommended storage temperature: 5-25 °C (41-77 °F).

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Dibenzoyl peroxide
CAS: 94-36-0
Long-term exposure: 5 mg/m³
Amorphus Silica
CAS: 112945-52-5
Long-term exposure: 6 mg/m³, total inhalable dust

DNEL

Substance
Dibenzoyl peroxide, CAS: 94-36-0
Industrial, dermal, Long-term - systemic effects, 13,3 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 39 mg/m³
general population, oral, Long-term - systemic effects, 2 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 2,9 mg/m³
Ethylene dimethacrylate, CAS: 97-90-5
Industrial, dermal, Long-term - systemic effects, 1,3 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 2,45 mg/m³
general population, inhalative, Long-term - systemic effects, 1,45 mg/m³
general population, oral, Long-term - systemic effects, 0,83 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 0,83 mg/kg bw/day
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate, CAS: 6846-50-0
Industrial, dermal, Long-term - systemic effects, 5 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 17,62 mg/m³
general population, oral, Long-term - systemic effects, 5 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 4,35 mg/m³

PNEC

Substance
Dibenzoyl peroxide, CAS: 94-36-0
freshwater, 0,02 ug/L
sewage treatment plants (STP), 0,35 mg/l
sediment (freshwater), 0,013 mg/kg
sediment (seawater), 0,001 mg/kg
soil, 0,0758 mg/kg dw
seawater, 0,002 ug/L
Ethylene dimethacrylate, CAS: 97-90-5
sewage treatment plants (STP), 57 mg/l
seawater, 13,9 µg/l
sediment (freshwater), 1,6 mg/kg dw
sediment (seawater), 0,16 mg/kg dw
soil, 239 µg/kg dw
freshwater, 139 µg/l
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate, CAS: 6846-50-0

sewage treatment plants (STP), 3 mg/l
sediment (freshwater), 5,29 mg/kg sediment dw
sediment (seawater), 529 µg/kg sediment dw
freshwater, 0,014 mg/l
seawater, 0,0014 mg/l

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If workplace limit values are exceeded or if there is insufficient ventilation: Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	suspension
Color	yellowish
Odor	characteristic
Odour threshold	not determined
pH-value	not determined
pH-value [1%]	not determined
Boiling point [°C]	240
Flash point [°C]	110
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	0,01
Density [g/cm³]	1,1 - 1,2 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not determined
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	not determined
Decomposition temperature [°C]	55
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
LD50, oral, Rat, > 4000 mg/kg (IUCLID)
Dibenzoyl peroxide, CAS: 94-36-0
LD50, oral, Rat, 5000 mg/kg
Ethylene dimethacrylate, CAS: 97-90-5
LD50, oral, Rat, 8300 mL/kg bw
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate, CAS: 6846-50-0
LD50, oral, Rat, > 3200 mg/kg

Acute dermal toxicity

Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
LD50, dermal, Rabbit, > 5000 mg/kg (IUCLID)
Ethylene dimethacrylate, CAS: 97-90-5
LD50, dermal, Rat, > 2000 mg/kg bw
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate, CAS: 6846-50-0
LD50, dermal, Rabbit, 18900 mg/kg

Acute inhalational toxicity

Substance
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate, CAS: 6846-50-0
LC50, inhalative, Rat, 5,3 mg/l/6h

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
Eye, Rabbit, irritant
Ethylene dimethacrylate, CAS: 97-90-5
Eye, Rabbit, In vivo study, non-irritating

Skin corrosion/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
dermal, Rabbit, non-irritating
Ethylene dimethacrylate, CAS: 97-90-5
dermal, Rabbit, In vivo study, non-irritating

Respiratory or skin sensitisation May cause an allergic skin reaction.
Based on the available information, the classification criteria are fulfilled.
Calculation method

Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
dermal, Human, sensitising
Ethylene dimethacrylate, CAS: 97-90-5

dermal, mouse, OECD 406, sensitising

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylene dimethacrylate, CAS: 97-90-5
positive

Specific target organ toxicity — repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylene dimethacrylate, CAS: 97-90-5
NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 422, negativ

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
Cell culture, OECD 474, negativ
Ethylene dimethacrylate, CAS: 97-90-5
OECD 471, negativ

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylene dimethacrylate, CAS: 97-90-5
NOAEL, parenteral, Rat, 100 mg/kg bw/day, OECD 422, negativ

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylene dimethacrylate, CAS: 97-90-5
NOAEL, oral, mouse, 1500 mg/kg bw/day, In vivo study, negativ

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
LC50, (48h), Leuciscus idus, 493 mg/L (IUCLID)
EC10, (16h), Pseudomonas putida, 1140 mg/l (IUCLID)
Dibenzoyl peroxide, CAS: 94-36-0
LC50, (96h), Oncorhynchus mykiss, 0,0602 mg/l (OECD 203)
LC50, (96h), fish, 1,7-2,4 mg/l (OECD 203)
EC50, (48h), Daphnia magna, 2,91 mg/l (OECD 202)
EC50, (48h), Daphnia magna, 0,11 mg/l (OECD 202)
EC50, (72h), Pseudokirchneriella subcapitata, 0,0711 mg/l (OECD 201)
NOEC, (48h), Daphnia magna, 1,99 mg/l
Ethylene dimethacrylate, CAS: 97-90-5
LC50, (96h), Danio rerio, 15,95 mg/l (OECD 203)
EC50, (72h), Algae, 17,3 mg/l
EC50, (48h), Daphnia magna, 44,9 mg/l
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate, CAS: 6846-50-0
LC50, (96h), Pimephales promelas, 1,55 mg/l
EC50, (72h), Algae, 7,49 mg/L
EC50, (48h), Daphnia magna, 1,46 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	AOX-advice: No dangerous components.
Biological degradability	No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.
Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with national regulations.

Product

Dispose of as hazardous waste.
Coordinate disposal with the disposal contractor/authorities if necessary.

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID	3082
Inland navigation (ADN)	3082
Marine transport in accordance with IMDG	3082
Air transport in accordance with IATA	3082

14.2 UN proper shipping name

Transport by land according to ADR/RID	Environmentally hazardous substance, liquid, n.o.s. (Dibenzoyl peroxide)
- Classification Code	M6
- Label	
- ADR LQ	5 l
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (-)
Inland navigation (ADN)	Environmentally hazardous substance, liquid, n.o.s. (Dibenzoyl peroxide)
- Classification Code	M6
- Label	
Marine transport in accordance with IMDG	Environmentally hazardous substance, liquid, n.o.s. (Dibenzoyl peroxide)
- EMS	F-A, S-F
- Label	
- IMDG LQ	5 l
Air transport in accordance with IATA	Environmentally hazardous substance, liquid, n.o.s. (Dibenzoyl peroxide)
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	9 (N)
Inland navigation (ADN)	9 (N)
Marine transport in accordance with IMDG	9
Air transport in accordance with IATA	9

14.4 Packing group

Transport by land according to ADR/RID	III
Inland navigation (ADN)	III
Marine transport in accordance with IMDG	III
Air transport in accordance with IATA	III

14.5 Environmental hazards

Transport by land according to ADR/RID	yes
Inland navigation (ADN)	yes
Marine transport in accordance with IMDG	MARINE POLLUTANT
Air transport in accordance with IATA	yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

TRANSPORT-REGULATIONS	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	not applicable

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.2 Other information

Classification procedure

Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 8 been added: If workplace limit values are exceeded or if there is insufficient ventilation:

SECTION 12 been added: Ecological data of complete product are not available.