

WELD-ON 4 CLEAR (DCM & TCE Free)

Version number: 1.0

Date of compilation: 2025-04-11

SECTION 1: Identification

1.1 Product identifier

Trade name **WELD-ON 4 CLEAR (DCM & TCE Free)**
Product category/ies Acrylic Solvent Cement

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

Relevant identified uses adhesive
Acrylic Solvent Cement

1.3 Details of the supplier of the safety data sheet

Weld-On
17109 S. Main
Gardena CA 90248-3127
United States

Telephone: 1-310-898-3300
e-mail: EHSInfo@ipscorp.com
Website: www.weldon.com

1.4 Emergency telephone number

Emergency information service 24 Hours - CHEMTEL: (800) 255-3924; International (813) 248-0585

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Hazard class	Category
serious eye damage/eye irritation	1
skin sensitization	1
carcinogenicity	2
flammable liquid	2

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS02, GHS05, GHS07,
GHS08



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- Hazard statements

H225	Highly flammable liquid and vapor.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.

- Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
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.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

nitromethane, methyl methacrylate, 2-phenoxyethanol, butan-1-ol

2.3 Other hazards

Hazards not otherwise classified

Repeated exposure may cause skin dryness or cracking.

Harmful to aquatic life with long lasting effects (GHS category 3: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not relevant (mixture)

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3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%
trans-dichloroethylene	CAS No 156-60-5	25 – < 50
nitromethane	CAS No 75-52-5	25 – < 50
ethyl acetate	CAS No 141-78-6	5 – < 10
2-phenoxyethanol	CAS No 122-99-6	5 – < 10
butan-1-ol	CAS No 71-36-3	1 – < 5
methyl methacrylate	CAS No 80-62-6	1 – < 5

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

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5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen chloride (HCl)

Flash point

24.8 °F at 1 atm closed cup

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

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Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)										
Country	Name of substance	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	ethyl acetate	PEL (CA)	400	1,400						Cal/OSHA PEL
US	ethyl acetate	REL	400 (10 h)	1,400 (10 h)						NIOSH REL
US	ethyl acetate	TLV®	400							ACGIH® 2024
US	ethyl acetate	PEL	400	1,400						29 CFR 1910.1000
US	trans-dichloroethylene	TLV®	200							ACGIH® 2024
US	butan-1-ol	TLV®	20							ACGIH® 2024
US	butan-1-ol	PEL	100	300						29 CFR 1910.1000
US	butan-1-ol	REL					50	150	H	NIOSH REL
US	butan-1-ol	PEL (CA)					50	150	H	Cal/OSHA PEL
US	nitromethane	PEL (CA)	2	5						Cal/OSHA PEL

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Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of substance	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	nitromethane	TLV®	20							ACGIH® 2024
US	nitromethane	PEL	100	250						29 CFR 1910.1000
US	nitromethane	REL							appx-D	NIOSH REL
US	methyl methacrylate	REL	100 (10 h)	410 (10 h)						NIOSH REL
US	methyl methacrylate	TLV®	50		100					ACGIH® 2024
US	methyl methacrylate	PEL	100	410						29 CFR 1910.1000
US	methyl methacrylate	PEL (CA)	50	205	100	410				Cal/OSHA PEL

Notation

appx-D see Appendix D - Substances with No Established RELs

Ceiling-C ceiling value is a limit value above which exposure should not occur

H absorbed through the skin

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
nitromethane	75-52-5	DNEL	20 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
nitromethane	75-52-5	DNEL	39 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
nitromethane	75-52-5	DNEL	39 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
nitromethane	75-52-5	DNEL	79 mg/m³	human, inhalatory	worker (industry)	acute - local effects
nitromethane	75-52-5	DNEL	417 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
nitromethane	75-52-5	DNEL	2,500 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
trans-dichloroethylene	156-60-5	DNEL	797 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
ethyl acetate	141-78-6	DNEL	1,468 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m³	human, inhalatory	worker (industry)	chronic - local effects

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Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ethyl acetate	141-78-6	DNEL	1,468 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
ethyl acetate	141-78-6	DNEL	63 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-phenoxyethanol	122-99-6	DNEL	5.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-phenoxyethanol	122-99-6	DNEL	5.7 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2-phenoxyethanol	122-99-6	DNEL	20.83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
butan-1-ol	71-36-3	DNEL	310 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
methyl methacrylate	80-62-6	DNEL	348.4 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
methyl methacrylate	80-62-6	DNEL	208 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
methyl methacrylate	80-62-6	DNEL	416 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
methyl methacrylate	80-62-6	DNEL	13.67 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
nitromethane	75-52-5	PNEC	4.9 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
trans-dichloroethylene	156-60-5	PNEC	36.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
trans-dichloroethylene	156-60-5	PNEC	3.6 µg/l	aquatic organisms	marine water	short-term (single instance)
trans-dichloroethylene	156-60-5	PNEC	17 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
trans-dichloroethylene	156-60-5	PNEC	548.3 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
trans-dichloroethylene	156-60-5	PNEC	54.8 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
trans-dichloroethylene	156-60-5	PNEC	56.3 µg/kg	terrestrial organisms	soil	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.24 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.024 mg/l	aquatic organisms	marine water	short-term (single instance)
ethyl acetate	141-78-6	PNEC	650 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethyl acetate	141-78-6	PNEC	1.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.115 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

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Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
ethyl acetate	141-78-6	PNEC	0.148 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	0.943 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	0.094 mg/l	aquatic organisms	marine water	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	36 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	7.237 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	0.724 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	1.31 mg/kg	terrestrial organisms	soil	short-term (single instance)
butan-1-ol	71-36-3	PNEC	0.082 mg/l	aquatic organisms	freshwater	short-term (single instance)
butan-1-ol	71-36-3	PNEC	0.008 mg/l	aquatic organisms	marine water	short-term (single instance)
butan-1-ol	71-36-3	PNEC	2,476 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
butan-1-ol	71-36-3	PNEC	0.324 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
butan-1-ol	71-36-3	PNEC	0.032 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
butan-1-ol	71-36-3	PNEC	0.017 mg/kg	terrestrial organisms	soil	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	0.94 mg/l	aquatic organisms	freshwater	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	0.094 mg/l	aquatic organisms	marine water	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	10.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	0.102 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	1.48 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

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Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	colorless
Particle	not relevant (liquid)
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	<-90 °C
Initial boiling point and boiling range	47.64 °C at 101.3 kPa
Flash point	-4 °C at 1 atm
Flash point	24.8 °F at 1 atm
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

- Lower explosion limit (LEL)	2.2 vol%
- Upper explosion limit (UEL)	11.5 vol%
Vapor pressure	44.13 kPa at 25 °C
Density	1.164 g/cm ³ at 73 °F
Vapor density	this information is not available

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Solubility(ies)	not determined
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Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	355 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

9.2 Other information

VOC content	When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: > 250 g/L This product is not compliant for sale to Southern California or other regions due to the high VOC content. Please check your relevant state or regional regulations for more information.
Temperature class (USA, acc. to NEC 500)	T2 (maximum permissible surface temperature on the equipment: 300°C)

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed, in contact with skin or if inhaled.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
nitromethane	75-52-5	oral	1,506 mg/kg
nitromethane	75-52-5	dermal	>2,000 mg/kg
trans-dichloroethylene	156-60-5	inhalation: vapor	11 mg/l/4h
2-phenoxyethanol	122-99-6	oral	1,840 mg/kg
2-phenoxyethanol	122-99-6	dermal	>2,000 mg/kg
butan-1-ol	71-36-3	oral	2,292 mg/kg
butan-1-ol	71-36-3	dermal	3,430 mg/kg
methyl methacrylate	80-62-6	inhalation: vapor	29.8 mg/l/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
methyl methacrylate	80-62-6	3	
nitromethane	75-52-5	2B	

Legend

2B Possibly carcinogenic to humans
3 Not classifiable as to carcinogenicity in humans

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National Toxicology Program (United States): Report on Carcinogens

Name of substance	CAS No	Classification	Number
nitromethane	75-52-5	Reasonably anticipated to be a human carcinogen	11th Report on Carcinogens

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
nitromethane	75-52-5	LC50	>659.2 mg/l	fish	96 h
nitromethane	75-52-5	EC50	>103 mg/l	aquatic invertebrates	48 h
nitromethane	75-52-5	ErC50	>102 mg/l	algae	72 h
trans-dichloroethylene	156-60-5	LC50	135 mg/l	fish	96 h
trans-dichloroethylene	156-60-5	EC50	220 mg/l	aquatic invertebrates	48 h
trans-dichloroethylene	156-60-5	EbC50	36.36 mg/l	algae	48 h
ethyl acetate	141-78-6	LC50	230 mg/l	fish	96 h
ethyl acetate	141-78-6	EC50	220 mg/l	fish	96 h
2-phenoxyethanol	122-99-6	LC50	344 mg/l	fish	96 h
2-phenoxyethanol	122-99-6	EC50	>500 mg/l	aquatic invertebrates	48 h
2-phenoxyethanol	122-99-6	ErC50	>100 mg/l	algae	72 h
butan-1-ol	71-36-3	LC50	1,376 mg/l	fish	96 h
butan-1-ol	71-36-3	EC50	1,328 mg/l	aquatic invertebrates	48 h
butan-1-ol	71-36-3	ErC50	225 mg/l	algae	96 h
methyl methacrylate	80-62-6	EC50	69 mg/l	aquatic invertebrates	48 h
methyl methacrylate	80-62-6	ErC50	>110 mg/l	algae	72 h

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Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
nitromethane	75-52-5	EC50	310 mg/l	microorganisms	30 min
2-phenoxyethanol	122-99-6	EC50	>1,000 mg/l	microorganisms	30 min
butan-1-ol	71-36-3	EC50	18 mg/l	aquatic invertebrates	21 d
methyl methacrylate	80-62-6	LC50	33.7 mg/l	fish	35 d
methyl methacrylate	80-62-6	EC50	49 mg/l	aquatic invertebrates	21 d

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

DOT UN 1133

IMDG-Code UN 1133

ICAO-TI UN 1133

14.2 UN proper shipping name

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DOT	Adhesives
IMDG-Code	ADHESIVES
ICAO-TI	Adhesives
14.3 Transport hazard class(es)	
DOT	3
IMDG-Code	3
ICAO-TI	3
14.4 Packing group	
DOT	II
IMDG-Code	II
ICAO-TI	II
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations
14.6 Special precautions for user	
There is no additional information.	
14.7 Transport in bulk according to IMO instruments	
The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration	UN1133, Adhesives, 3, II
Reportable quantity (RQ)	2,326 lbs (1,056 kg) (trans-dichloroethylene) (methyl methacrylate)
Danger label(s)	3



Special provisions (SP)	149, B52, IB2, T4, TP1, TP8
ERG No	128

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	- (not hazardous to the aquatic environment)
Danger label(s)	3



Special provisions (SP)	-
Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 L
EmS	F-E, S-D

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Stowage category

B

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s)

3



Special provisions (SP)

A3

Excepted quantities (EQ)

E2

Limited quantities (LQ)

1 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)

all ingredients are listed as ACTIVE

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

Name of substance	CAS No	Remarks	Effective date
methyl methacrylate	80-62-6		1987-01-01
trans-dichloroethylene	540-59-0		1987-01-01
nitromethane	75-52-5		2011-01-01
butan-1-ol	71-36-3		1987-01-01

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
methyl methacrylate	80-62-6		1 3 4	1000 (454)
ethyl acetate	141-78-6		4	5000 (2270)
trans-dichloroethylene	156-60-5		2 4	1000 (454)
butan-1-ol	71-36-3		4	5000 (2270)

Legend

- "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
- "2" indicates that the source is section 307(a) of the Clean Water Act
- "3" indicates that the source is section 112 of the Clean Air Act
- "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

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Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
trans-dichloroethylene	156-60-5		CA MCLs CWA 303(c)
nitromethane	75-52-5		IARC Carcinogens - 2B NTP 13th RoC - reasonable Prop 65
2-phenoxyethanol			CA TACs
butan-1-ol	71-36-3		IRIS Neurotoxicants
methyl methacrylate	80-62-6		CA TACs IRIS Neurotoxicants

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
methyl methacrylate	80-62-6				1.0 %
ethyl acetate	141-78-6				1.0 %
trans-dichloroethylene	156-60-5				1.0 %
nitromethane	75-52-5				0.1 %
2-phenoxyethanol		1022			1.0 %
butan-1-ol	71-36-3		LHS		1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
methyl methacrylate	80-62-6	A, O	
ethyl acetate	141-78-6	A, O	
trans-dichloroethylene	540-59-0	A, O	
nitromethane	75-52-5	A, O	
butan-1-ol	71-36-3	A, O	skin

Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division
- skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

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- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
methyl methacrylate	80-62-6		F3 R2
ethyl acetate	141-78-6		F3
trans-dichloroethylene	540-59-0		F3 R2
nitromethane	75-52-5		CA F3 R4
2-phenoxyethanol			
butan-1-ol	71-36-3		F3

Legend

CA Carcinogenic
F3 Flammable - Third Degree
R2 Reactive - Second Degree
R4 Reactive - Fourth Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name of substance	CAS No	Classification
methyl methacrylate	80-62-6	E
ethyl acetate	141-78-6	E
trans-dichloroethylene	156-60-5	E
nitromethane	75-52-5	
2-phenoxyethanol		E
butan-1-ol	71-36-3	E

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
methyl methacrylate	80-62-6	T, F
ethyl acetate	141-78-6	T, F
trans-dichloroethylene	540-59-0	T, F
trans-dichloroethylene	540-59-0	T, F
trans-dichloroethylene	540-59-0	T, F
nitromethane	75-52-5	T, F
butan-1-ol	71-36-3	T, F

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

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California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals

Name acc. to inventory	CAS No	Remarks	Type of the toxicity
nitromethane	75-52-5		cancer

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed

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Country	Inventory	Status
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

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

SECTION 16: Other information, including date of preparation or last revision

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
ACGIH® 2024	From ACGIH®, 2024 TLVs® and BEIs® Book. Copyright 2024. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control

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Abbr.	Descriptions of used abbreviations
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
ERG No	Emergency Response Guidebook - Number
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LHS	Lower hazard substance
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

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Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.