WELD-ON 811 (A & B) CARTRIDGE

Flyleaf

Date of compilation: 2022-11-28

Bill of materials

Name of substance	Identifier	Number of pieces	Classification acc. to GHS	Pictograms	Page
WELD-ON 811 A		1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Carc. 2 / H351 STOT SE 3 / H335 Flam. Liq. 2 / H225		2 – 20
WELD-ON 811B CLEAR		1	Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Carc. 2 / H351 Repr. 1B / H360Df Flam. Liq. 2 / H225 Org. Perox. D / H242		21 – 43

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

WELD-ON 811 A

Version number: 1.0 Date of compilation: 2022-06-30

SECTION 1: Identification

1.1 Product identifier

Trade name **WELD-ON 811 A**

Product category/ies Component A for an Acrylic Adhesive

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

Relevant identified uses contact adhesive
adhesive

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
skin corrosion/irritation	2
serious eye damage/eye irritation	2
skin sensitization	1
carcinogenicity	2
specific target organ toxicity - single exposure (respiratory tract irritation)	3
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, GHS07, GHS08 

- Hazard statements

H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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.
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.
P271	Use only outdoors or in a well-ventilated area.
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.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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 methyl methacrylate, N,N-dimethylaniline, methacrylic acid

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
methyl methacrylate	CAS No 80-62-6	50 – < 75	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 STOT SE 3 / H335 Flam. Liq. 2 / H225
methacrylic acid	CAS No 79-41-4	1 – < 5	Acute Tox. 4 / H302 Acute Tox. 3 / H311 Skin Corr. 1A / H314 STOT SE 3 / H335 Flam. Liq. 4 / H227
N,N-dimethylaniline	CAS No 121-69-7	< 1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 3 / H331 Carc. 2 / H351 Flam. Liq. 4 / H227

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. In case of respiratory tract irritation, consult a physician. 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

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 (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

Flash point	50 °F at 1,013 hPa

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.

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.

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 agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	dimethylaniline	121-69-7	TLV®	5		10				H	ACGIH® 2022
US	dimethylaniline (N,N-dimethylphenylamine)	121-69-7	PEL	5	25						29 CFR 1910.1000

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	N,N-dimethylaniline	121-69-7	REL	5 (10 h)	25 (10 h)	10	50				NIOSH REL
US	N,N-dimethylaniline (N,N-dimethylphenylamine)	121-69-7	PEL (CA)	5	25	10	50				Cal/OSHA PEL
US	titanium dioxide	13463-67-7	PEL		15					i, dust	29 CFR 1910.1000
US	titanium dioxide	13463-67-7	REL							lowest, appx-A	NIOSH REL
US	Titanium dioxide finescale particles	13463-67-7	TLV®		2.5					r	ACGIH® 2022
US	Titanium dioxide nanoscale particles	13463-67-7	TLV®		0.2					r	ACGIH® 2022
US	ethyl acrylate	140-88-5	PEL (CA)	5	20	25	100				Cal/OSHA PEL
US	ethyl acrylate	140-88-5	TLV®	5		15					ACGIH® 2022
US	ethyl acrylate	140-88-5	PEL	25	100						29 CFR 1910.1000
US	ethyl acrylate	140-88-5	REL							lowest, appx-A	NIOSH REL
US	methacrylic acid	79-41-4	PEL (CA)	20	70						Cal/OSHA PEL
US	methacrylic acid	79-41-4	REL	20 (10 h)	70 (10 h)						NIOSH REL
US	methacrylic acid	79-41-4	TLV®	20							ACGIH® 2022
US	methyl methacrylate	80-62-6	REL	100 (10 h)	410 (10 h)						NIOSH REL
US	methyl methacrylate	80-62-6	TLV®	50		100					ACGIH® 2022
US	methyl methacrylate	80-62-6	PEL	100	410						29 CFR 1910.1000
US	methyl methacrylate (methyl 2-methylprop-2-enoate)	80-62-6	PEL (CA)	50	205	100	410				Cal/OSHA PEL

Notation

appx-A NIOSH Potential Occupational Carcinogen (Appendix A)
Ceiling-C ceiling value is a limit value above which exposure should not occur

Notation

dust	as dust
H	absorbed through the skin
i	inhalable fraction
lowest	exposure by all routes should be carefully controlled to levels as low as possible
r	respirable fraction
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 of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
methyl methacrylate	80-62-6	DNEL	348.4 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
methyl methacrylate	80-62-6	DNEL	208 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
methyl methacrylate	80-62-6	DNEL	416 mg/m³	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
methacrylic acid	79-41-4	DNEL	39.3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
methacrylic acid	79-41-4	DNEL	44 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
methacrylic acid	79-41-4	DNEL	4.25 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
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)
methacrylic acid	79-41-4	PNEC	0.82 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
methacrylic acid	79-41-4	PNEC	0.082 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
methacrylic acid	79-41-4	PNEC	100 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
methacrylic acid	79-41-4	PNEC	3.09 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
methacrylic acid	79-41-4	PNEC	0.309 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
methacrylic acid	79-41-4	PNEC	0.137 $^{mg}/_{kg}$	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.

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 (paste)
Color	white
Particle	not relevant (liquid)
Odor	sharp

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	100.4 °C at 1,013 hPa
Flash point	10 °C at 1,013 hPa
Flash point	50 °F at 1,013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	30 hPa at 16.67 °C
Density	1.054 $^{g}/_{cm^3}$ at 73 °F
Vapor density	this information is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available

Auto-ignition temperature	400 °C

Viscosity

- Dynamic viscosity	30,000 – 50,000 cP at 73 °F

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: < 50 g/L
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, Exothermic polymerization

If exposed to light:

Exothermic polymerization.

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. UV-radiation/sunlight.

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, Reducing agents

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.

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.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
methacrylic acid	79-41-4	oral	1,320 $^{mg}/_{kg}$
methacrylic acid	79-41-4	dermal	≥500 $^{mg}/_{kg}$
N,N-dimethylaniline	121-69-7	oral	951 $^{mg}/_{kg}$
N,N-dimethylaniline	121-69-7	dermal	1,692 $^{mg}/_{kg}$

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	**CAS No**	**Exposure route**	**ATE**
N,N-dimethylaniline	121-69-7	inhalation: vapor	3 $^{mg}/_{l}$/4h

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

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	
N,N-dimethylaniline	121-69-7	3	

Legend
3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

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.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

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

Data are not available.

12.6 Endocrine disrupting properties

Information on this property is not available.

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

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)	1,884 lbs (855.5 kg) (methyl methacrylate) (N,N-dimethylaniline)
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	-
Danger label(s)	3

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

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- 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
N,N-dimethylaniline	121-69-7		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)
N,N-dimethylaniline	121-69-7		3	100 (45,4)

Legend

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

Right to Know Hazardous Substance List

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

Name of substance	CAS No	Functionality	Authoritative Lists
methyl methacrylate	80-62-6		CA TACs

- 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 %
N,N-dimethylaniline	121-69-7				1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
methyl methacrylate	80-62-6	A, O	
N,N-dimethylaniline		A, O, *	skin
methacrylic acid	79-41-4	A	

Legend

*	Substances which are regulated by OSHA as carcinogens; have been categorized by the ACGIH as either "human carcinogens" or "suspect of carcinogenic potential for man"; have been evaluated by the International Agency for Research on Cancer (IARC) and found to be carcinogens or potential carcinogens; or have been listed as a carcinogen or potential carcinogen in the Annual Report on Carcinogens published by the National Toxicology Program (NTP).
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.

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
methyl methacrylate	80-62-6		F3 R2
N,N-dimethylaniline	121-69-7		F2
methacrylic acid	79-41-4		CO F2 R2

Legend

CO	Corrosive
F2	Flammable - Second Degree
F3	Flammable - Third Degree
R2	Reactive - Second Degree

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

Name acc. to inventory	CAS No	Classification
2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER	80-62-6	E
BENZENAMINE, N,N-DIMETHYL-	121-69-7	E
2-PROPENOIC ACID, 2-METHYL-	79-41-4	

Legend

E	Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
methyl methacrylate	80-62-6	T, F
N,N-dimethylaniline	121-69-7	T
methacrylic acid	79-41-4	T, F

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

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
ethyl acrylate	140-88-5		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	2	temporary or minor injury may occur
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	2	material that, under emergency conditions, can cause temporary incapacitation or residual 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	not all ingredients are listed

Country	Inventory	Status
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
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

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® 2022	From ACGIH®, 2022 TLVs® and BEIs® Book. Copyright 2022. 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
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carc.	Carcinogenicity

Abbr.	Descriptions of used abbreviations
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)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Flam. Liq.	Flammable liquid
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
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)
Skin Corr.	Corrosive to skin

Abbr.	Descriptions of used abbreviations
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
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.

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).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H227	Combustible liquid.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

Disclaimer

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

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

WELD-ON 811B CLEAR

Version number: 2.0
Replaces version of: 2022-06-30 (1)

Revision: 2022-11-28

SECTION 1: Identification

1.1 Product identifier

Trade name	**WELD-ON 811B CLEAR**
Product category/ies	Component B for Acrylic Adhesive

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

Relevant identified uses	adhesive contact adhesive

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	2
skin sensitization	1
carcinogenicity	2
reproductive toxicity	1B
flammable liquid	2
organic peroxide	D

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, GHS07, GHS08 

- Hazard statements

H225	Highly flammable liquid and vapor.
H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H360Df	May damage the unborn child. Suspected of damaging fertility.

- 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.
P220	Keep/store away from clothing/combustible materials.
P233	Keep container tightly closed.
P234	Keep only in original container.
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.
P308+P313	If exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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.
P410	Protect from sunlight.
P411+P235	Store at temperatures not exceeding 50 °C/122 °F. Keep cool.
P420	Store away from other materials.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling — dibutyl phthalate, benzoyl peroxide, Proprietary Additive

2.3 Other hazards

Heating may cause a fire. Special danger of slipping by leaking/spilling product.

Hazards not otherwise classified

Contains epoxy constituents. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
dibutyl phthalate	CAS No 84-74-2	50 – < 75	Repr. 1B / H360Df
benzoyl peroxide	CAS No 94-36-0	10 – < 25	Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Org. Perox. B / H241
Proprietary Additive	CAS No Proprietary	1 – < 5	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Carc. 2 / H351 STOT SE 3 / H335 Flam. Liq. 2 / H225

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

Unsuitable extinguishing media

Water jet

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. Oxidizing property.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

Flash point	-13.9 °F at 1,013 hPa

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

Collect spillage: sawdust, kieselgur (diatomite), sand

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. Take any precaution to avoid mixing with combustibles. 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.

- Handling of incompatible substances or mixtures

- Keep away from

Organic absorbing material, Pulp/paper

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. Keep reduction valves/valves and fittings free from oil and grease.

- Incompatible substances or mixtures

Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles.

- Ventilation requirements

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

- Specific designs for storage rooms or vessels

Do not keep the container sealed.

- 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 agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	vinyl acetate	108-05-4	PEL (CA)	10	30	15	45				Cal/OSHA PEL
US	vinyl acetate	108-05-4	REL					4 (15 min)	15 (15 min)		NIOSH REL
US	vinyl acetate	108-05-4	TLV®	10		15					ACGIH® 2022
US	vinyl chloride	75-01-4	PEL (CA)	1		5					Cal/OSHA PEL
US	vinyl chloride	75-01-4	TLV®	1							ACGIH® 2022
US	vinyl chloride	75-01-4	PEL	1		5					29 CFR 1910.1000
US	vinyl chloride	75-01-4	REL							lowest, appx-A	NIOSH REL
US	acetaldehyde	75-07-0	PEL (CA)					25	45		Cal/OSHA PEL
US	acetaldehyde	75-07-0	TLV®					25			ACGIH® 2022
US	acetaldehyde	75-07-0	PEL	200	360						29 CFR 1910.1000
US	acetaldehyde	75-07-0	REL							lowest, appx-A, appx-C	NIOSH REL
US	silica, amorphous	7631-86-9	REL		6 (10 h)						NIOSH REL
US	dibutyl phthalate	84-74-2	PEL (CA)		5						Cal/OSHA PEL
US	dibutyl phthalate	84-74-2	REL		5 (10 h)						NIOSH REL
US	dibutyl phthalate	84-74-2	TLV®		5						ACGIH® 2022
US	dibutyl phthalate	84-74-2	PEL		5						29 CFR 1910.1000

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	benzoyl peroxide	94-36-0	REL		5 (10 h)						NIOSH REL
US	benzoyl peroxide	94-36-0	TLV®		5						ACGIH® 2022
US	benzoyl peroxide	94-36-0	PEL		5						29 CFR 1910.1000
US	benzoyl peroxide (dibenzoyl peroxide)	94-36-0	PEL (CA)		5						Cal/OSHA PEL

Notation

appx-A	NIOSH Potential Occupational Carcinogen (Appendix A)
appx-C	Appendix C - Supplementary Exposure Limits
Ceiling-C	ceiling value is a limit value above which exposure should not occur
lowest	exposure by all routes should be carefully controlled to levels as low as possible
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 of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
benzoyl peroxide	94-36-0	DNEL	39 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
benzoyl peroxide	94-36-0	DNEL	13.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
benzoyl peroxide	94-36-0	DNEL	34 µg/cm²	human, dermal	worker (industry)	chronic - local effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
dibutyl phthalate	84-74-2	PNEC	10 µg/l	aquatic organisms	freshwater	short-term (single instance)
dibutyl phthalate	84-74-2	PNEC	1 µg/l	aquatic organisms	marine water	short-term (single instance)
dibutyl phthalate	84-74-2	PNEC	0.22 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
dibutyl phthalate	84-74-2	PNEC	1.19 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
dibutyl phthalate	84-74-2	PNEC	0.119 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
dibutyl phthalate	84-74-2	PNEC	0.05 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
benzoyl peroxide	94-36-0	PNEC	0.02 $^{µg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
benzoyl peroxide	94-36-0	PNEC	0.002 $^{µg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
benzoyl peroxide	94-36-0	PNEC	0.35 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzoyl peroxide	94-36-0	PNEC	0.013 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
benzoyl peroxide	94-36-0	PNEC	0.001 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
benzoyl peroxide	94-36-0	PNEC	0.003 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
Proprietary Additive	Proprietary	PNEC	0.07 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
Proprietary Additive	Proprietary	PNEC	0.007 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
Proprietary Additive	Proprietary	PNEC	9 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Proprietary Additive	Proprietary	PNEC	0.062 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
Proprietary Additive	Proprietary	PNEC	0.016 $^{mg}/_{kg}$	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.

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 (paste)
Color	colorless
Particle	not relevant (liquid)
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	63.4 °C at 1,013 hPa
Flash point	-25.5 °C at 1,013 hPa
Flash point	-13.9 °F at 1,013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

- Lower explosion limit (LEL)	0.4 vol%
Vapor pressure	227 hPa at 24 °C
Density	1.097 $^{g}/_{cm^3}$ at 73 °F
Vapor density	this information is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available

Auto-ignition temperature	370 °C (auto-ignition temperature (liquids and gases))

Viscosity

- Dynamic viscosity	20,000 – 30,000 cP at 73 °F
Explosive properties	none
Oxidizing properties	oxidizer

9.2 Other information

VOC content	When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: < 50 g/L
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. Oxidizing property.

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, Combustible materials

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.

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.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Proprietary Additive	Proprietary	oral	500 $^{mg}/_{kg}$
Proprietary Additive	Proprietary	dermal	1,100 $^{mg}/_{kg}$
Proprietary Additive	Proprietary	inhalation: vapor	>6.3 $^{mg}/_{l}$/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

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
Proprietary Additive	106-88-7	2B	
benzoyl peroxide	94-36-0	3	

Legend

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

Reproductive toxicity

May damage the unborn child. Suspected of damaging fertility.

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.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

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

Data are not available.

12.6 Endocrine disrupting properties

Information on this property is not available.

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 3105
IMDG-Code	UN 3105
ICAO-TI	UN 3105

14.2 UN proper shipping name

DOT	Organic peroxide type D, liquid
IMDG-Code	ORGANIC PEROXIDE TYPE D, LIQUID
ICAO-TI	Organic peroxide type D, liquid
Technical name (hazardous ingredients)	benzoyl peroxide, Proprietary Additive

14.3 Transport hazard class(es)

DOT	5.2
IMDG-Code	5.2
ICAO-TI	5.2

14.4 Packing group

not assigned

14.5 Environmental hazards

hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment)	dibutyl phthalate

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	UN3105, Organic peroxide type D, liquid, (contains: benzoyl peroxide, Proprietary Additive), 5.2, environmentally hazardous
Reportable quantity (RQ)	15.53 lbs (7.05 kg) (dibutyl phthalate) (Proprietary Additive)
Danger label(s)	5.2, fish and tree

Environmental hazards	yes (hazardous to the aquatic environment)
ERG No	145

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	yes (hazardous to the aquatic environment) (dibutyl phthalate)
Danger label(s)	5.2, fish and tree

Special provisions (SP)	122, 274
Excepted quantities (EQ)	E0
Limited quantities (LQ)	125 mL
EmS	F-J, S-R
Stowage category	D

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

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	5.2

Special provisions (SP)	A20, A150
Excepted quantities (EQ)	E0

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"|tous les composants sont énumérés comme "ACTIVE"

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

Name of substance	CAS No	Remarks	Effective date
Proprietary Additive	106-88-7		1987-01-01
dibutyl phthalate	84-74-2		1987-01-01
benzoyl peroxide	94-36-0		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)
Proprietary Additive	106-88-7		3	100 (45,4)
dibutyl phthalate	84-74-2		1 2 3 4	10 (4,54)

Legend

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

Right to Know Hazardous Substance List

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

Name of substance	CAS No	Functionality	Authoritative Lists
dibutyl phthalate	84-74-2		CA TACs CDC 4th National Exposure Report CECBP - Priority Chemicals CWA 303(c) CWA 303(d) EC Annex VI CMRs - Cat. 1B NTP OHAT - Repr. or Dev. Toxicants Prop 65
Proprietary Additive	106-88-7		CA TACs IARC Carcinogens - 2B OEHHA RELs

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Proprietary Additive	106-88-7				0.1 %
dibutyl phthalate	84-74-2				1.0 %
benzoyl peroxide	94-36-0				1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
Proprietary Additive		I	
dibutyl phthalate	84-74-2	A, O	
benzoyl peroxide	94-36-0	A, N, O	

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
I	American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA
N	National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer

Legend

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

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Proprietary Additive	106-88-7		CA MU F3 R2
dibutyl phthalate	84-74-2		TE
benzoyl peroxide	94-36-0		F4 R4

Legend

CA	Carcinogenic
F3	Flammable - Third Degree
F4	Flammable - Fourth Degree
MU	Mutagenic
R2	Reactive - Second Degree
R4	Reactive - Fourth Degree
TE	Teratogenic

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

Name acc. to inventory	CAS No	Classification
OXIRANE, ETHYL-	106-88-7	E
1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER	84-74-2	E
PEROXIDE, DIBENZOYL	94-36-0	E

Legend

E	Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
Proprietary Additive	106-88-7	F
dibutyl phthalate	84-74-2	T, F
benzoyl peroxide	94-36-0	T, F

Legend

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

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
di-n-butyl phthalate (DBP)	84-74-2		developmental, female, male
vinyl chloride	75-01-4		cancer
acetaldehyde	75-07-0		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	2	temporary or minor injury may occur
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	3	material that may form explosive mixtures with water and are capable of detonation or explosive reaction in the presence of a strong initiating source. Material may polymerize, decompose, self-react, or undergo other chemical change at normal temperature and pressure with moderate risk of explosion
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	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	3	material that in themselves are capable of detonation or explosive decomposition or explosive reaction but that require a strong initiating source or must be heated under confinement before initiation
Special hazard		

National inventories

Country	Inventory	Status
US	TSCA	all ingredients are listed or exempt from listing
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TW	TCSI	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
TR	CICR	not all ingredients are listed

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
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

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table)	yes
2.2		- Pictograms: change in the listing (table)	yes
2.2		- Hazard statements: change in the listing (table)	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3	Other hazards: Heating may cause a fire or explosion. Special danger of slipping by leaking/spilling product.	Other hazards: Heating may cause a fire. Special danger of slipping by leaking/spilling product.	yes
9.1	Explosive properties: explosive	Explosive properties: none	yes
9.1	Oxidizing properties	Oxidizing properties: oxidizer	yes
10.1	Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Explosive property. Risk of ignition. Oxidizing property.	Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition. Oxidizing property.	yes
10.1	If heated: Danger of explosion, Risk of ignition	If heated: Risk of ignition	yes
10.3	Possibility of hazardous reactions: Heating may cause a fire or explosion.	Possibility of hazardous reactions: No known hazardous reactions.	yes
10.4	Hints to prevent fire or explosion: Do not subject to grinding/shock/friction. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.	Hints to prevent fire or explosion: Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.	yes
14.1	DOT: UN 3101	DOT: UN 3105	yes
14.1	IMDG-Code: UN 3101	IMDG-Code: UN 3105	yes
14.1		ICAO-TI: UN 3105	yes
14.2	DOT: Organic peroxide type B, liquid	DOT: Organic peroxide type D, liquid	yes
14.2	IMDG-Code: ORGANIC PEROXIDE TYPE B, LIQUID	IMDG-Code: ORGANIC PEROXIDE TYPE D, LIQUID	yes
14.2		ICAO-TI: Organic peroxide type D, liquid	yes
14.3	DOT: 5.2 (1)	DOT: 5.2	yes
14.3	IMDG-Code: 5.2 (1)	IMDG-Code: 5.2	yes
14.3		ICAO-TI: 5.2	yes
14.7	Particulars in the shipper's declaration: UN3101, Organic peroxide type B, liquid, (contains: benzoyl peroxide, Proprietary Additive), 5.2 (1), environmentally hazardous	Particulars in the shipper's declaration: UN3105, Organic peroxide type D, liquid, (contains: benzoyl peroxide, Proprietary Additive), 5.2, environmentally hazardous	yes
14.7	Danger label(s): 5.2+1, fish and tree	Danger label(s): 5.2, fish and tree	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): 53		yes
14.7	ERG No: 146	ERG No: 145	yes
14.7	Danger label(s): 5.2+1, fish and tree	Danger label(s): 5.2, fish and tree	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): 122, 181, 195, 274	Special provisions (SP): 122, 274	yes
14.7	Limited quantities (LQ): 25 mL	Limited quantities (LQ): 125 mL	yes
14.7	International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information: Carriage prohibited.	International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information	yes
14.7		Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.7		Danger label(s): 5.2	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Special provisions (SP): A20, A150	yes
14.7		Excepted quantities (EQ): E0	yes
15.1	Toxic Substance Control Act (TSCA): all ingredients are listed	Toxic Substance Control Act (TSCA): all ingredients are listed as "ACTIVE"|tous les composants sont énumérés comme "ACTIVE"	yes
15.1		NPCA-HMIS® III: change in the listing (table)	yes
15.1		NFPA® 704: change in the listing (table)	yes

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

Abbr.	Descriptions of used abbreviations
ACGIH® 2022	From ACGIH®, 2022 TLVs® and BEIs® Book. Copyright 2022. 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
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carc.	Carcinogenicity
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)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
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
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

Abbr.	Descriptions of used abbreviations
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
Org. Perox.	Organic peroxide
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
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
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.

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).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H241	Heating may cause a fire or explosion.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.

Code	Text
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360Df	May damage the unborn child. Suspected of damaging fertility.

Disclaimer

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