

ITW Performance Polymers

SAFETY DATA SHEET DEWELD 531 ADHESIVE

1. Identification

Product identifier

Product name DEWELD 531 ADHESIVE

Recommended use of the chemical and restrictions on use

Application Adhesive.

Details of the supplier of the safety data sheet

Supplier ITW Performance Polymers
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
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353(61)771500
353(61)471285
customerservice.shannon@itwpp.com

Emergency telephone number

Emergency telephone +44(0)1235 239 670 (24h)

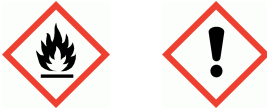
2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Flam. Liq. 2 - H225
Health hazards Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards Not Classified

Label elements

Hazard symbols



Signal word Danger

Hazard statements
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

DEWELD 531 ADHESIVE

Precautionary statements	<p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>P240 Ground/ bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P261 Avoid breathing vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing must not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 Call a poison center/ doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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Contains METHYL METHACRYLATE, MALEIC ACID

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

METHYL METHACRYLATE	30-60%
CAS number: 80-62-6	
Classification	
Flam. Liq. 2 - H225	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
MALEIC ACID	5-10%
CAS number: 110-16-7	
Classification	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Skin Sens. 1 - H317	
STOT SE 3 - H335	

The full text for all hazard statements is displayed in Section 16.

DEWELD 531 ADHESIVE

4. First-aid measures

Description of first aid measures

General information	Do not breathe vapor/spray. Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.
Skin Contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.

Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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Indication of immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder.
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Special hazards arising from the substance or mixture

Specific hazards	Avoid breathing fire gases or vapors. Highly flammable Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Polymerizes easily with evolution of heat.
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Advice for firefighters

Protective actions during firefighting	Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Highly flammable. Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Do not breathe vapour. Avoid contact with skin and eyes.
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Environmental precautions

Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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Methods and material for containment and cleaning up

DEWELD 531 ADHESIVE

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards.

7. Handling and storage

Precautions for safe handling

Usage precautions

Use only in well-ventilated areas. Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Take precautionary measures against static discharges. Storage tanks and other containers must be grounded. No smoking, sparks, flames or other sources of ignition near spillage. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Do not use in confined spaces without adequate ventilation and/or respirator. Good personal hygiene procedures should be implemented.

Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight. Store away from incompatible materials (see Section 10).

Specific end uses(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

METHYL METHACRYLATE

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm 205 mg/m³

Short-term exposure limit (15-minute): ACGIH 100 ppm 410 mg/m³

A4, DSens

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 410 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

DSens = Dermal sensitizer.

OSHA = Occupational Safety and Health Administration.

Ingredient comments

WEL = Workplace Exposure Limits

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles. Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with OSHA 1910.133.

DEWELD 531 ADHESIVE

Hand protection	Use protective gloves. It is recommended that gloves are made of the following material: Butyl rubber. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. The selected gloves should have a breakthrough time of at least 8 hours.
Other skin and body protection	Wear chemical protective suit.
Hygiene measures	Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving workplace.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Paste.
Color	White/off-white.
Odor	Slight pungent.
Melting point	-47.7°C
Initial boiling point and range	100.5°C @
Flash point	10°C
Evaporation rate	3 (butyl acetate =1)
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 12.5 Lower flammable/explosive limit: 2.1
Vapor pressure	28mmHg @ °C
Vapor density	3.5
Relative density	.93 - 1.05 @ @ 20 °C°C
Other information	Not available.

10. Stability and reactivity

Reactivity	The following materials may react with the product: Strong oxidizing agents. Strong reducing agents. Alkalis.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Heating may generate flammable vapors. Vapors may form explosive mixtures with air. Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.

DEWELD 531 ADHESIVE

Materials to avoid Avoid contact with the following materials: Oxidizing agents. Reducing agents. Alkalis - inorganic. Alkalis - organic.

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire or high temperatures create: Vapours/gases/fumes of: Fumaric acid

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 10,000.0

Acute toxicity - inhalation

ATE inhalation (gases ppm) 71,530.76

ATE inhalation (vapours mg/l) 306.56

ATE inhalation (dusts/mists mg/l) 51.09

Inhalation Harmful by inhalation. Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. Vapors in high concentrations are anesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.

Ingestion Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract. May cause stomach pain or vomiting.

Skin Contact May be absorbed through the skin. Irritating to skin. Prolonged contact may cause redness, irritation and dry skin. May cause sensitisation by skin contact. May cause sensitization or allergic reactions in sensitive individuals.

Eye contact Irritating to eyes. A single exposure may cause the following adverse effects: Corneal damage.

Target Organs Prolonged or repeated exposure may cause the following adverse effects: May cause damage to the liver and kidneys. Heart & cardiovascular system Respiratory system, lungs Central nervous system

Toxicological information on ingredients.

MALEIC ACID

Acute toxicity - oral

ATE oral (mg/kg) 500.0

12. Ecological information

Ecotoxicity Avoid release to the environment.

Toxicity Not considered toxic to fish.

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Bioaccumulative potential

Bio-Accumulative Potential LC50/96h/fathead minnows = 150 ppm, LC50/96h/bluegill sunfish = 232ppm.

DEWELD 531 ADHESIVE

Mobility in soil

Mobility Do not discharge into drains or watercourses or onto the ground. Biochemical oxygen demand within 5 days (BOD5) = 0.14g/g - 0.90 g/g; Theoretical oxygen demand (ThOD) = 1.92g/g

Other adverse effects

Other adverse effects Not available.

13. Disposal considerations

Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class 08 04 09

14. Transport information

UN Number

UN No. (TDG) 1133

UN No. (IMDG) 1133

UN No. (ICAO) 1133

UN No. (DOT) 1133

UN proper shipping name

Proper shipping name (TDG) ADHESIVES

Proper shipping name (IMDG) ADHESIVES

Proper shipping name (ICAO) ADHESIVES

Proper shipping name (DOT) ADHESIVES

Transport hazard class(es)

TDG class 3

TDG label(s) 3

IMDG Class 3

ICAO class/division 3

Transport labels



Packing group

TDG Packing Group II

IMDG packing group II

ICAO packing group II

DOT packing group II

Special precautions for user

DEWELD 531 ADHESIVE

EmS F-E, S-D

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information required.

15. Regulatory information

16. Other information

Revision date	3/22/2021
Revision	15
Supersedes date	4/3/2018
Hazard statements in full	H225 Highly flammable liquid and vapor. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.