

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

POLYVANTIS

ACRIFIX® 2R 0190

Version Revision Date: SDS Number: Date of last issue: 09/30/2025
2.0 05/05/2026 1014-00002 Date of first issue: 09/30/2025

SECTION 1. IDENTIFICATION

Product name : ACRIFIX® 2R 0190

Manufacturer or supplier's details

Company name of supplier : POLYVANTIS Sanford LLC

Address : 1796 Main St.

Sanford ME 04073

Telephone : (207) 324-6000

Emergency telephone : +1 866 519 4752 (24 h) - Account ID:59904

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives

Restrictions on use : For professional and industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Flammable liquids : Category 2

Skin irritation : Category 2

Skin sensitization : Category 1

Specific target organ toxicity : Category 3
- single exposure

Other hazards

Vapors may form explosive mixture with air.

GHS label elements

Hazard pictograms :



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.

Precautionary Statements : **Prevention:**
P210 Keep away from heat, sparks, open flame and hot surfaces. No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical, ventilating and lighting

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POLYVANTIS

ACRIFIX® 2R 0190

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Date of first issue: 09/30/2025

equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.
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, protective clothing, eye protection and face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical attention.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Adhesives
Methacrylic acid ester and additives

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Methyl methacrylate	80-62-6*	>= 60 - <= 80	TSC
Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol	-	>= 0.1 - <= 1	TSC
Poly(oxy-1,2-ethanediyl), α,α' -[[4-methylphenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy]-	103671-44-9*	>= 0.1 - <= 1	TSC

* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

SAFETY DATA SHEET

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POLYVANTIS

ACRIFIX® 2R 0190

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2025
2.0	05/05/2026	1014-00002	Date of first issue: 09/30/2025

SECTION 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- Notes to physician : Treat symptomatically and supportively.
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SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapors may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.
- Special protective equipment : In the event of fire, wear self-contained breathing apparatus.
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SAFETY DATA SHEET

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POLYVANTIS

ACRIFIX® 2R 0190

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2025
2.0	05/05/2026	1014-00002	Date of first issue: 09/30/2025

for fire-fighters

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
Ventilate the area.
Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g., by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.
Use explosion-proof electrical, ventilating and lighting equipment.
- Advice on safe handling : Do not get on skin or clothing.
Avoid breathing mist or vapors.
Do not swallow.
Avoid contact with eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
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POLYVANTIS

ACRIFIX® 2R 0190

Version 2.0 Revision Date: 05/05/2026 SDS Number: 1014-00002 Date of last issue: 09/30/2025
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- Non-sparking tools should be used.
Keep container tightly closed.
Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Keep in properly labeled containers.
Store locked up.
Keep tightly closed.
Keep in a cool, well-ventilated place.
Keep away from direct sunlight.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition.
Store at room temperature in the original container.
Fill the container by approximately 90 % only as oxygen (air) is required for stabilization. With large storage containers make sure the oxygen (air) supply is sufficient to ensure stability.
- Materials to avoid : Do not store with the following product types:
Strong oxidizing agents
Self-reactive substances and mixtures
Organic peroxides
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures which in contact with water emit flammable gases
Explosives
Gases
Very acutely toxic substances and mixtures
- Recommended storage temperature : < 86 °F / < 30 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methyl methacrylate	80-62-6	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		TWA	100 ppm 410 mg/m ³	NIOSH REL
		TWA	100 ppm 410 mg/m ³	OSHA Z-1

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POLYVANTIS

ACRIFIX® 2R 0190

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2025
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Engineering measures : Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.
Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Material : butyl-rubber
Glove thickness : 0.3 mm
Wearing time : 60 min

Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often!

Eye protection : Wear the following personal protective equipment:
Safety glasses

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
When using do not eat, drink or smoke.
Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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POLYVANTIS

ACRIFIX® 2R 0190

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2025
2.0	05/05/2026	1014-00002	Date of first issue: 09/30/2025

Color	:	violet
Odor	:	ester-like
Odor Threshold	:	0.05 - 0.34 ppm
pH	:	7 - 8 Concentration: 1 % (as aqueous solution)
Melting point/freezing point	:	-54 °F / -48 °C (1,013 hPa)
Initial boiling point and boiling range	:	ca. 212 °F / 100 °C
Flash point	:	48 °F / 9 °C
Evaporation rate	:	ca. 3
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Ignitable (see flash point)
Upper explosion limit / Upper flammability limit	:	ca. 12.5 %(V)
Lower explosion limit / Lower flammability limit	:	ca. 2.1 %(V) (50 °F / 10 °C)
Vapor pressure	:	38.7 hPa (68 °F / 20 °C) (for a component of this mixture)
Relative vapor density	:	> 1
Density	:	ca. 1.02 g/cm ³ (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	ca. 16 g/l partly soluble (68 °F / 20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	ca. 815 °F / 435 °C
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
Viscosity		
Viscosity, dynamic	:	1,600 - 2,000 mPa.s (68 °F / 20 °C)
Viscosity, kinematic	:	> 100 mm ² /s (104 °F / 40 °C)
Explosive properties	:	Not explosive

SAFETY DATA SHEET

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POLYVANTIS

ACRIFIX® 2R 0190

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2025
2.0	05/05/2026	1014-00002	Date of first issue: 09/30/2025

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle characteristics
Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerize with heat evolution.

Possibility of hazardous reactions : Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.
Highly flammable liquid and vapor.
Vapors may form explosive mixture with air.
Can react with strong oxidizing agents.
Polymerization occurs when exposed to white light, ultraviolet light or heat.
Avoid radical-forming starting agents, peroxides and reactive metals.

Conditions to avoid : Exposure to light.
Heat, flames and sparks.

Incompatible materials : inorganic acid(s)
Free radical initiators
Sulfur compounds
Peroxides
Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
Oxidizing agents
Amines

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

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POLYVANTIS

ACRIFIX® 2R 0190

Version 2.0 Revision Date: 05/05/2026 SDS Number: 1014-00002 Date of last issue: 09/30/2025
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Acute inhalation toxicity : Acute toxicity estimate: 30 - 70 mg/l
Test atmosphere: vapor

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

Components:

Methyl methacrylate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 29.8 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit, male): > 5,000 mg/kg

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol:

Acute oral toxicity : LD50 (Rat, male): 619 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

Poly(oxy-1,2-ethanediyl), α,α' -[[4-methylphenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy]-:

Acute oral toxicity : LD50 (Rat, male): 619 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Causes skin irritation.

Components:

Methyl methacrylate:

Species : Rabbit

Result : Skin irritation

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol:

Species : reconstructed human epidermis (RhE)

Method : OECD Test Guideline 431

Species : reconstructed human epidermis (RhE)

Method : OECD Test Guideline 439

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

POLYVANTIS

ACRIFIX® 2R 0190

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2025
2.0	05/05/2026	1014-00002	Date of first issue: 09/30/2025

||Result : Skin irritation

Poly(oxy-1,2-ethanediyl), α,α' -[[4-methylphenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy]-:

||Species : reconstructed human epidermis (RhE)
||Method : OECD Test Guideline 439

||Species : reconstructed human epidermis (RhE)
||Method : OECD Test Guideline 431

||Result : Skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Methyl methacrylate:

||Species : Rabbit
||Result : No eye irritation
||Method : Draize Test

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol:

||Species : Rabbit
||Result : Irreversible effects on the eye
||Method : OECD Test Guideline 405

Poly(oxy-1,2-ethanediyl), α,α' -[[4-methylphenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy]-:

||Species : Rabbit
||Result : Irreversible effects on the eye
||Method : OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

Methyl methacrylate:

||Test Type : Local lymph node assay (LLNA)
||Routes of exposure : Skin contact
||Species : Mouse
||Method : OECD Test Guideline 429
||Result : positive
||Remarks : The test was conducted equivalent or similar to guideline

SAFETY DATA SHEET

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POLYVANTIS

ACRIFIX® 2R 0190

Version 2.0 Revision Date: 05/05/2026 SDS Number: 1014-00002 Date of last issue: 09/30/2025
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|| Assessment : Probability or evidence of low to moderate skin sensitization rate in humans

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol:

|| Test Type : Local lymph node assay (LLNA)
|| Routes of exposure : Skin contact
|| Species : Mouse
|| Method : OECD Test Guideline 429
|| Result : positive

|| Assessment : Probability or evidence of skin sensitization in humans

Poly(oxy-1,2-ethanediyl), α,α' -[[4-methylphenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy]-:

|| Test Type : Local lymph node assay (LLNA)
|| Routes of exposure : Skin contact
|| Species : Mouse
|| Method : OECD Test Guideline 429
|| Result : positive

|| Assessment : Probability or evidence of skin sensitization in humans

Germ cell mutagenicity

Not classified based on available information.

Components:

Methyl methacrylate:

|| Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Test Type: in vitro micronucleus test
Method: OECD Test Guideline 487
Result: negative

|| Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Inhalation
Result: negative

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol:

|| Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

SAFETY DATA SHEET

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POLYVANTIS

ACRIFIX® 2R 0190

Version 2.0 Revision Date: 05/05/2026 SDS Number: 1014-00002 Date of last issue: 09/30/2025
Date of first issue: 09/30/2025

Genotoxicity in vivo : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: positive

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Test Type: In vivo mammalian alkaline comet assay
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 489
Result: negative

Poly(oxy-1,2-ethanediyl), α,α' -[[[4-methylphenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy]-:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: positive

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: positive

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Test Type: In vivo mammalian alkaline comet assay
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 489
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Methyl methacrylate:

Species : Mouse
Application Route : Inhalation
Exposure time : 102 weeks
Result : negative

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

POLYVANTIS

ACRIFIX® 2R 0190

Version 2.0 Revision Date: 05/05/2026 SDS Number: 1014-00002 Date of last issue: 09/30/2025
Date of first issue: 09/30/2025

Reproductive toxicity

Not classified based on available information.

Components:

Methyl methacrylate:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rabbit
Application Route: inhalation (vapor)
Method: OECD Test Guideline 414
Result: negative

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl)imino]diethanol:

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

Poly(oxy-1,2-ethanediyl), α,α' -[[4-methylphenyl)imino]di-2,1-ethanediyl]bis[ω -hydroxy]-:

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

STOT-single exposure

May cause respiratory irritation.

Components:

Methyl methacrylate:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Methyl methacrylate:

Species : Rat, male
NOAEL : ≥ 124.1 mg/kg
Application Route : Ingestion

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

POLYVANTIS

ACRIFIX® 2R 0190

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2025
2.0	05/05/2026	1014-00002	Date of first issue: 09/30/2025

|| Exposure time : 104 Weeks

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol:

|| Species : Rat, female
|| NOAEL : 100 mg/kg
|| LOAEL : 300 mg/kg
|| Application Route : Ingestion
|| Exposure time : 28 Days
|| Method : OECD Test Guideline 407

Poly(oxy-1,2-ethanediyl), α,α' -[[4-methylphenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy]-:

|| Species : Rat
|| NOAEL : 100 mg/kg
|| LOAEL : 400 mg/kg
|| Application Route : Ingestion
|| Exposure time : 90 Days
|| Method : OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Methyl methacrylate:

|| Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 159.1 mg/l
Exposure time: 96 h

|| Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 69 mg/l
aquatic invertebrates Exposure time: 48 h

|| Toxicity to algae/aquatic : ErC50 (Raphidocelis subcapitata (freshwater green alga)): >
plants 110 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

|| NOEC (Raphidocelis subcapitata (freshwater green alga)): >=
110 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

|| Toxicity to fish (Chronic tox- : EC10 (Danio rerio (zebra fish)): 16.9 mg/l
icity) Exposure time: 35 d
Method: OECD Test Guideline 210

|| Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 37 mg/l
aquatic invertebrates (Chron- Exposure time: 21 d

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

POLYVANTIS

ACRIFIX® 2R 0190

Version 2.0 Revision Date: 05/05/2026 SDS Number: 1014-00002 Date of last issue: 09/30/2025
Date of first issue: 09/30/2025

Acute toxicity) Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (activated sludge): 3,162 mg/l
Exposure time: 3 h
Method: ISO 8192

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 48 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Poly(oxy-1,2-ethanediyl), α,α' -[[[4-methylphenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy]-:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 48 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Raphidocelis subcapitata (freshwater green alga)): 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

POLYVANTIS

ACRIFIX® 2R 0190

Version 2.0 Revision Date: 05/05/2026 SDS Number: 1014-00002 Date of last issue: 09/30/2025
Date of first issue: 09/30/2025

II

Persistence and degradability

Components:

Methyl methacrylate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 1.5 %
Exposure time: 29 d
Method: OECD Test Guideline 301B

Poly(oxy-1,2-ethanediyl), α,α' -[[4-methylphenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy]-:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 1.5 %
Exposure time: 29 d
Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

Methyl methacrylate:

Partition coefficient: n-octanol/water : log Pow: 1.38

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol:

Partition coefficient: n-octanol/water : log Pow: 2.17
Method: OECD Test Guideline 117

Poly(oxy-1,2-ethanediyl), α,α' -[[4-methylphenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy]-:

Partition coefficient: n-octanol/water : log Pow: 2.17
Method: OECD Test Guideline 117

Mobility in soil

No data available

Other adverse effects

No data available

Endocrine disrupting properties

No data available

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

POLYVANTIS

ACRIFIX® 2R 0190

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2025
2.0	05/05/2026	1014-00002	Date of first issue: 09/30/2025

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Empty containers retain residue and can be dangerous.
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.
If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1133
Proper shipping name : ADHESIVES
Class : 3
Packing group : II
Labels : 3
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 1133
Proper shipping name : Adhesives
Class : 3
Packing group : II
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 353

IMDG-Code

UN number : UN 1133
Proper shipping name : ADHESIVES
Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 1133
Proper shipping name : Adhesives
Class : 3

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

POLYVANTIS

ACRIFIX® 2R 0190

Version 2.0 Revision Date: 05/05/2026 SDS Number: 1014-00002 Date of last issue: 09/30/2025
Date of first issue: 09/30/2025

Packing group : II
Labels : FLAMMABLE LIQUID
ERG Code : 128
Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methyl methacrylate	80-62-6	1000	1464

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Respiratory or skin sensitization
Skin corrosion or irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Methyl methacrylate 80-62-6 >= 50 - < 70 %
late

US State Regulations

Pennsylvania Right To Know

Methyl methacrylate 80-62-6
Trade secret Trade secret

California Prop. 65

WARNING: This product can expose you to chemicals including Methyl acrylate, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Methyl methacrylate 80-62-6

California Permissible Exposure Limits for Chemical Contaminants

Methyl methacrylate 80-62-6

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

POLYVANTIS

ACRIFIX® 2R 0190

Version
2.0

Revision Date:
05/05/2026

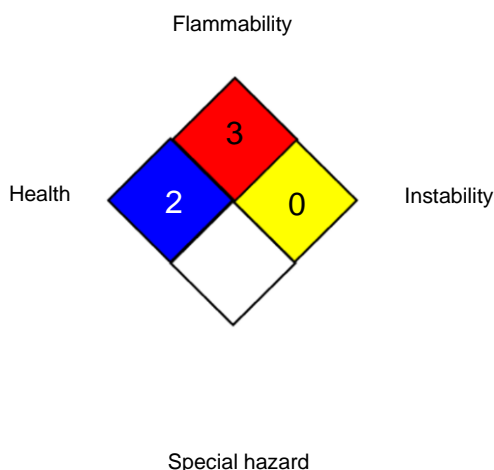
SDS Number:
1014-00002

Date of last issue: 09/30/2025
Date of first issue: 09/30/2025

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV / CED:

HEALTH	/	2
FLAMMABILITY		3
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Oth-

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

POLYVANTIS

ACRIFIX® 2R 0190

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2025
2.0	05/05/2026	1014-00002	Date of first issue: 09/30/2025

erwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 05/05/2026

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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