. Identification

Product Identification

Product Identifier: Acrox

Recommended Use: ACROX is a water-based acrylic coating for concrete, masonry, and stucco.

Use Restrictions: For industrial use only. To ensure proper installation, use according to package directions. Complete application instructions can be

found in Acrox catalogs or online at www.zilanholding.com.

Company Identification

Company: Ilia High Tech company

Address: 3rd floor, No 252, Fatemi St, Tehran, Iran

 Phone:
 0098 21 62999653

 Website:
 www.lliahightech.com

Hazard Identification

General Information

ACROX Water-Based Acrylic Coating is a single component product for use for protecting concrete, masonry, and stucco. This product has been assessed according to the Globally Harmonized System (GHS). The product can be assumed to carry its hazards until the product has been fully cured. The final hardened material is gray or white in color and can be considered nonhazardous. Some hazards apply upon grinding or cutting through hardened product. This Safety Data Sheet covers hazards and responses for the safe use and handling of Acrox

GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards: Not Classified.

 Health Hazards:
 Acute Toxicity, Inhalation
 Category 4
 H332: Harmful if inhaled

 Skin Corrosion/Irritation
 Category 2
 H315: Causes skin irritation

Carcinogenicity Category 2 H351: Suspected of causing cancer

Environmental Hazards: Not Classified.

Main Symptoms: Irritation of skin. Symptoms include redness, itching, and burning; discomfort in the chest, shortness of breath, or coughing. Long term exposure may

cause chronic effects.

GHS Label Elements



Contains: Acrylic Polymers, Titanium Dioxide, Ethylene Glycol, Ammonium Hydroxide, Quartz

Signal Word: WARNING!

 Hazard Statements:
 H332:
 Harmful if inhaled.

 H315:
 Causes skin irritation.

H351: Suspected of causing cancer.

Precautionary Statements:

Prevention: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe mist or vapor.

P264: Wash hands thoroughly after handling.

P272: Contaminated clothing should not be allowed out of the workplace.

P280: Wear protective gloves/clothing/eye protection/face protection.

FX-505 Page 1 of 9

Response: P302+P352: IF ON SKIN: Wash with plenty of water.

P332+P313: If skin irritation occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

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.

P337+P313: If eye irritation persists: Get medical advice/attention.
P308+P313: If exposed or concerned: Get medical advice/attention.
P314: Call a POISON CENTER/doctor if you feel unwell.

P391: Collect spillage.

Storage: P403: Store in a well-ventilated place.

P405: Store locked up.

P420: Store away from incompatible materials.

Disposal: P501: Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.

Hazards Not Otherwise Classified (HNOC)

The above hazards are for the uncured FX-505. Upon grinding or cutting through the cured product, the following hazards may apply. Ensure that good work practices, and the necessary precautionary measures, are taken to maintain safe use of the product



Health Hazard: OSHA Hazard:

Carcinogenicity Combustible Dust Category 1A

Hazard Statement:

May cause cancer.

Can form explosive air-dust mixtures; avoid creating dust.

Precautionary Statement:

Do not breathe dust.

Do not allow dust to build up on surfaces.

3. Composition Information

General Information

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

List of abbreviations and symbols:

Classification: Global Harmonized System Classifications

The full text for H-phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

Composition – All concentrations are in percent by weight unless otherwise indicated

Chemical Name	Weight %	CAS Number	EC Number
Acrylic Polymer Classifications: None.	< 40	NA	N/A
Titanium Dioxide Classifications: Carc. 2: H351	< 30	13463-67-7	236-675-5
Ethylene Glycol Classifications: Acute Tox. 4: H302	1-5	107-21-1	203-473-3
Tetrachloroisophthalonitrile	<1	1897-45-6	217-588-1
Classifications: Acute Tox. 2: H330, Carc. 2: H351, STOT SE 3: H335, Aqu	uatic 1: H400+H410		
Ammonium Hydroxide Classifications: Skin Corr. 1B: H314, Aquatic Acute 1: H400	<1	1336-21-6	215-647-6
Crystalline Silica, Quartz Classifications: Carc. 1A: H350, STOT RE 2: H373	<1	14808-60-7	238-878-4

4. First-Aid Measures

General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

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Routes of Exposure

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open.

Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or swelling

persists, consult a physician.

Skin Contact: Remove contaminated clothing and product; wash affected area with soap and water. Do not apply

greases or ointments. If redness, burning, or swelling persists, consult a physician.

Ingestion: Rinse mouth. If you feel unwell, consult a physician.

Inhalation: Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to

experience difficulty breathing, consult a physician.

Most Important Symptoms

Irritant effects. Respiratory irritation/harm. Symptoms include redness, itching, and; discomfort in the chest, shortness of breath, or coughing.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water fog, carbon dioxide, dry chemical powder, foam. Use extinguishing media appropriate for surrounding

material.

Additional Information: None known.

Hazards during Fire-Fighting: Material can splatter above 212°F (100°C), polymer film can burn. Irritating and toxic gases/fumes may be released

during a fire. Do not allow run-off from fire-fighting to enter drains or water courses.

Fire-Fighting Procedures: Use standard fire-fighting procedures and consider the hazards of other involved materials. In case of fire and/or

explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. Accidental Release Measures

Personal Precautions

Non-emergency personnel: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Emergency personnel: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protection.

Clean-Up Methods

Small spills (uncured): Wipe up with absorbent material (e.g. cloth, fleece). Place in leak-proof containers. Seal tightly for proper disposal.

Clean surface thoroughly to remove residual contamination.

Large spills (uncured): Stop the flow of material, if this is without risk. Dike far ahead of spill to contain material. Use a non-combustible

material like vermiculite, sand or earth to soak up the product. Place in leak-proof containers. Seal tightly for proper

disposal. Following product recovery, flush area with water.

Cured Material: Remove with appropriate solvent. Ensure good work practice and use of personal protective equipment as needed

to control exposure to vapors.

Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Handling

Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. When in use do not eat, drink, or smoke. Wash thoroughly after handling. Observe good industrial hygiene practices. Storage

Store in a closed container away from incompatible materials (Section 10 of the SDS). Keep in original container. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Keep away from heat and sources of ignition. Protect from physical damage. Protect from freezing.

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Exposure Controls / Personal Protection

Personal Protective Equipment

Protective Measure: Wear appropriate personal protective equipment.

 Eye Protection:
 Wear chemical splash goggles or safety glasses with side shield.

 Hand Protection:
 Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.

Skin and Body Protection: Wear long sleeve shirts/long pants and other clothing as required to minimize contact.

Respirator Protection: The use of a respirator is not required during normal use of this product. An approved respirator should be worn whenever workplace

conditions warrant respirator use.

General Hygiene: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or

smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Engineering Controls

When using indoors good general ventilation should be used. Ventilation rates should be matched to conditions. Provide eyewash station.

Exposure Limits

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Titanium Dioxide (CAS 13463-67-7)	15 mg/m³ (Total dust)	10 mg/m ³	N/E
Ethylene Glycol (CAS 107-21-1)	125 mg/m ³	100 ppm (ceiling, aerosol)	N/E
Ammonium Hydroxide (CAS 1336-21-6)	35 ppm (TWA) 50 ppm (STEL)	25 ppm (TWA) 35 ppm (STEL)	25 ppm (TWA) 35 ppm (STEL)
Crystalline Silica, Quartz (CAS 14808-60-7)	$\frac{10}{\%SiO_2 + 2} mg/m^3$	0.025 mg/m ³ (respirable)	0.05 mg/m³ (respirable)

9. Physical and Chemical Properties

 Physical State:
 Liquid
 Freezing/Melting Point:
 N/E

 Form:
 Viscous Liquid
 Boiling Point:
 N/E

 Color:
 Varies
 Flash Point:
 Non-Combustible

 Odor:
 Mild
 Evaporation Rate:
 >1 (Butyl Acetate = 1)

Odor Threshold: N/E Specific Gravity: 1.3 VOC: pH: N/F 86 g/L U/L Flammability: Flammability: N/E N/E Vapor Pressure: N/E Vapor Density: N/E Solubility: Miscible Kow: N/E Decomposition: Viscosity: N/E N/E

10. Stability and Reactivity

Reactivity: This product is stable and non-reactive under normal conditions.

Chemical Stability: Stable under normal storage conditions.

Condition to Avoid: Temperatures greater than 350°F (177°C).

Substances to Avoid: Not Applicable.

Hazardous Reactions: Hazardous polymerization will not occur.

Decomposition Products: Carbon dioxide, carbon monoxide, oxides of nitrogen and other organic compounds.

Toxicological Information

Likely Routes of Exposure

 Ingestion:
 Expected to be a low ingestion hazard.

 Inhalation:
 Prolonged inhalation may be harmful.

Skin contact: Causes skin irritation.

Eye contact: Direct contact with eyes may cause temporary irritation.

Symptoms: Redness, itching, and burning; discomfort in the chest, shortness of breath, or coughing.

nformation on Toxicological Effects

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Acute Effects Toxicity:

Harmful if inhaled. Occupational exposure to the substance or mixture may cause adverse effects.

Component	Estimate
ACROX Toxicity Estimate	
Ac	sute, Oral, LD50 5958
Acute	e, Dermal, LD50 4052
Acute,	Inhalation, LC50 1.24

Component		Species	Test Result
Titanium Dioxide (CAS 13463-67-7)			
	Acute, Oral, LD50	Rat	> 10000 mg/kg
Ethylene Glycol (CAS 107-21-1)			
			4700 mg/kg
	Acute, Oral, LD50	Rat	
	Acute, Dermal, LD50	Rabbit	9530 mg/kg
Tetrachloroisophthalonitrile (CAS 1897-45-6)			
	Acute, Oral, LD50	Rat	3260 mg/kg
	Acute, Dermal, LD50	Rabbit	2020 mg/kg
	Acute, Inhalation, LC50	Rat	0.1 mg/l 4 Hours
Ammonium Hydroxide (CAS 1336-21-6)			
	Acute, Oral, LD50	Rat	350 mg/kg
Quartz (CAS 14808-60-7)			
	Acute, Oral, LD50	Rat	22500 mg/kg

Skin corrosion/irritation: Causes skin irritation.

Eye damage/eye irritation: Direct eye contact may cause temporary irritation.

Respiratory sensitization: No data available.

Skin sensitization: Not expected to cause skin sensitization by contact.

Aspiration hazard: No data available.

Specific target organ toxicity

No data available.

Single exposure: **Chronic Effects**

Germ cell mutagenicity: No data available

Carcinogenicity: Suspected of causing cancer. Reproductive toxicity: No data available.

Specific target organ toxicity

No data available. Repeated exposure:

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Tetrachloroisophthalonitrile (1897-45-6)	<1	2B			CA65
Titanium dioxide (13463-67-7)	< 30	2B			CA65
Quartz (14808-60-7)	< 1	1	KNOWN	A2	CA65

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 – Not classifiable as to carcinogenicity 4 – Probably not carcinogenic NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen

ACGIH – A1 – Confirmed carcinogen A2 – Suspected carcinogen A3 – Animal carcinogen A4 – Not classified A5 – Not suspected CA65 – California Prop 65

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with certain pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

Ecological Information

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General Information

Information given is based on data on the components and the ecotoxicology of similar products. The product is classified as toxic to aquatic life with long lasting effects. Avoid release to the

Supporting Data

Component	Species	Test Result
Ethylene Glycol (CAS 107-21-1) Aquatic, Fish, LC50	Fathead minnow	8050 mg/l, 96 Hours
Aquatic, Crustacea, EC50	Daphnia magna	> 100 mg/l, 48 Hours
Aquatic, Algae, EC50	Microalga	> 100 mg/l, 96 Hours
Tetrachloroisophthalonitrile (CAS 1897-45-6) Aquatic, Fish, LC50		
	Rainbow trout	0.0136 mg/l, 96 Hours
Aquatic, Crustacea, EC50	Daphnia magna	0.081-0.113 mg/l, 48 Hours
Ammonium Hydroxide (CAS 1336-21-6) Aquatic, Fish, LC50		0.89 mg/l, 96 Hours
Aquatic, Crustacea, EC50	Daphnia magna	0.66 mg/l, 48 Hours

Persistence and degradability: Bioaccumulative potential:

No data available.

No data available for the product.

Chemical	Log Kow	BCF	Bioaccumulation Potential
Ethylene Glycol (CAS 107-21-1)	-1.36	0.6	

Mobility in soil:

No data available

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13. Disposal Considerations

Substance:

Waste Disposal of

Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Container Disposal:

Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Disposal of Cured

Remove from surface with appropriate solvent. Dispose in closed container according to local/regional regulations.

Disposal of Cule

Product:

Transportation Information

DOT: ACROX is not regulated for transport.

IMDG/IATA: ACROX is not regulated for transport.

IMDG/IATA:

Special precautions for user:

Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable.

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

5. Regulatory Information

United States

Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,

29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):

5-Chloro-2-methyl-4-isothiazolin-3-one (CAS 26172-55-4) LISTED

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2-Methyl-4-isothiazolin-3-one (CAS 2682-20-4)

LISTED

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4):

Ammonium Hydroxide (CAS 1336-21-6) Ethylene Glycol (CAS 107-21-1) LISTED LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

ouponana minemaniente	ana moaatiionzation rict			
Hazard Categori	s:			
Immediate	Delayed	Fire	Pressure	Reactivity
Yes	Yes	No	No	No

SARA 302 Extremely hazardous substance: SARA 311/312 Hazardous chemical:

SARA 311/312 Hazardous chem SARA 313 (TRI reporting): No Yes

Component	CAS Number	% In Blend (approx.)
Ethylene Glycol	107-21-1	1-5
Tetrachloroisophthalonitrile	1897-45-6	< 1
Ammonium Hydroxide	1336-21-6	< 1

US. California Proposition 65: WARNING: This product contains a chemical listed by the State of California as known to cause cancer, birth defects, or reproductive harm.

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Tetrachloroisophthalonitrile (1897-45-6)	< 1	2B			CA65 (Carcinogenic)
Ethylene Glycol (107-21-1)	1-5				CA65 (Developmental)
Titanium dioxide (13463-67-7)	< 30	2B			CA65 (Carcinogenic)
Quartz (14808-60-7)	< 1	1	KNOWN	A2	CA65 (Carcinogenic)

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 – Not classifiable as to carcinogenicity 4 – Probably not carcinogenic NTP. Known to be human carcinogen or Reasonably anticipated to be a human carcinogen ACGH – A1 – Contimed carcinogen A2 – Suspected carcinogen A3 – Animal carcinogen A4 – Not classified A5 – Not suspected CA65 – California Prop 65

US State Right-To-Know Lists

Chemical	Massachusetts RTK	New Jersey Work and Community RTK Act	Pennsylvania Worker and Community RTK Law	Rhode Island RTK	Maine CHC
Ammonium Hydroxide (CAS 1336-21-6)	Listed	Listed	Listed		
Ethylene Glycol (CAS 107- 21-1)	Listed	Listed	Listed	Listed	
Tetrachloroisophthalonitrile (CAS 1897-45-6)	Listed	Listed	Listed		Listed
Titanium Dioxide (CAS 13463-67-7)	Listed	Listed	Listed		
Quartz (CAS 14808-60-7)	Listed	Listed	Listed		Listed

Canada

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

International

The product is classified and labeled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

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REACH Registered Substances							
Chemical	CAS Number	EC Number	Index Number				
Tetrachloroisophthalonitrile	1897-45-6	217-588-1	608-014-00-4				
Ethylene Glycol	107-21-1	203-473-3	603-027-00-1				
Ammonium Hydroxide	1336-21-6	215-647-6	007-001-01-2				

This product is not subject to or not applicable for any of the following International Regulations; **Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.**

International Inventories

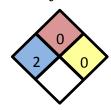
Australia	One or more components of this product have an unknown status on the Australian Inventory of Chemical Substances (AICS). Contact Zilan Intrnational Environmental Health and Safety if the status of this product on the inventory is desired.		
Canada	All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).		
China	One or more components of this product have an unknown status on the Inventory of Existing Chemical Substances in China (IECSC). Contact Zilan Intrnational Environmental Health and Safety if the status of this product on the inventory is desired.		
Europe	One or more components of this product have an unknown status on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing. Contact Zilan Intrnational Environmental Health and Safety if the status of this product on the inventory is desired.		
Japan	One or more components in this product have an unknown status on the Inventory of Existing and New Chemical Substances (ENCS). Contact Zilan Intrnational Environmental Health and Safety if the status of this product on the inventory is desired.		
Korea	One or more components of this product have an unknown status on the Existing Chemicals List (ECL). Contact Zilan Intrnational Environmental Heal and Safety if the status of this product on the inventory is desired.		
New Zealand	One or more components of this product have an unknown status on the New Zealand Inventory. Contact Zilan Intrnational Environmental Health and Safety if the status of this product on the inventory is desired.		
Philippines	One or more components of this product have an unknown status on the Philippine Inventory of Chemicals and Chemical Substances (PICCS). Contact Zilan Intrnational Environmental Health and Safety if the status of this product on the inventory is desired.		
United States & Puerto Rico	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.		

16. Other Information

Date Prepared or Revised: Supersedes:

July 2016 December 2014

NFPA Ratings



HMIS Rating

HEALTH	2	PHYSICAL	0
FLAMMABILITY	0	PPE	В

Abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

CAS No.: Chemical Abstract Service Registry Number

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)

HPR: Hazardous Product Regulations (Canada)

HMIS: Hazardous Materials Identification System

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IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods code

NIOSH: National Institute of Occupational Safety and Health (U.S.)

NFPA: National Fire Protection Association (US)

NTP: National Toxicology Program (US)

PEL: Permissible Exposure Limit

SARA: Superfund Amendments and Reauthorization Act (U.S. EPA)

STEL: Short Term Exposure Limit (15 minute Time Weighted Average)

STOT: Specific Target Organ Toxicity (GHS Classification)

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act (U.S.)

TWA: Time Weighted Average (exposure for 8-hour workday)

VOC: Volatile Organic Compounds

WHMIS: Canadian Workplace Hazardous Materials Information System

Full Text of H - Phrases Under Section 3

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H330: Fatal if inhaled.

H335: May cause respiratory irritation.

H350: May cause cancer.

H351: Suspected of causing cancer.

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Disclaimer

This Safety Data Sheet (SDS) is prepared by Iliahightech Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this SDS. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

Internal

FOR INTERNAL AND EXTERNAL USE
ACROX:

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