

SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: BAKER® ALEG-368

Other means of identification

Synonyms: XM429
Product No.: 6362, XM429
**Common name(s),
synonym(s):** XM429

Recommended use of the chemical and restrictions on use

Recommended use: For Laboratory, Research or Manufacturing Use.
Recommended restrictions: Not determined.

Details of the supplier of the safety data sheet

Manufacturer

Company Name: Avantor Performance Materials, LLC.
Address: 3477 Corporate Parkway
Center Valley, PA 18034
Telephone:
Customer Service: 855-282-6867
Fax: 610-573-2610
Contact Person: Environmental Health & Safety
E-mail: info@avantormaterials.com

Emergency telephone number: CHEMTREC: 60-392125794

2. Hazard(s) identification

GHS classification of substance or mixture, and national or regional information:

Health Hazards

Acute toxicity (Oral)	Category 4
Acute toxicity (Dermal)	Category 3
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Eye Irritation	Category 1
Carcinogenicity	Category 2
Toxic to reproduction	Category 2

Unknown toxicity- Health

Acute toxicity, oral	0 %
Acute toxicity, dermal	0 %
Acute toxicity, inhalation, vapor	50 %
Acute toxicity, inhalation, dust or mist	90 %

Unknown toxicity- Environment

Acute hazards to the aquatic environment	0 %
Chronic hazards to the aquatic environment	90 %

GHS label elements

Hazard symbol(s):



Signal Word: Danger

Hazard Statement(s): Toxic in contact with skin.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.

Precautionary statement(s):

Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None known.

3. Composition and information of the ingredients of the hazardous chemical

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Concentration*
Proprietary Glycol Ether, TSRN004314011-5111		Proprietary	15 - 45%
Proprietary Organic Oxide, TSRN004314011-5029		Proprietary	15 - 45%
Proprietary Amine, TSRN004314011-5014		Proprietary	10 - 25%
Proprietary Component, TSRN004314011-5060		Proprietary	4.5 - 5.5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand.

Description of necessary first-aid measures

Inhalation: Move to fresh air. Call a physician or poison control center immediately. Apply artificial respiration if victim is not breathing. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

Skin Contact: Rinse skin immediately. Thoroughly rub with liquid soap and wash with lukewarm water. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. Destroy or thoroughly clean contaminated shoes. Call a physician or poison control center immediately. If skin irritation or an allergic skin reaction develops, get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.

Ingestion Do not induce vomiting without advice from poison control center. Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Symptoms: May cause burns.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed. Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards: In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, fog, CO₂, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Pressurized container may explode when exposed to heat or flame.

Special protective action for fire fighters

Special fire fighting procedures: Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ventilate closed spaces before entering them.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures:	Inform authorities if large amounts are involved.

7. Handling and storage

Precautions to ensure safe handling:	Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed. Store in a well-ventilated place. Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Proprietary Glycol Ether, TSRN004314011-5111	Time Weighted Average (TWA):	20 ppm 96.7 mg/m3	Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations)03 2000
Proprietary Amine, TSRN004314011-5014	Time Weighted Average (TWA):	3 ppm 7.5 mg/m3	Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations)03 2000
Proprietary Component, TSRN004314011-5060	Time Weighted Average (TWA):	5 ppm 23 mg/m3	Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations)03 2000
Proprietary Glycol Ether, TSRN004314011-5111	TWA	20 ppm	US. ACGIH Threshold Limit Values (2011)
Proprietary Amine, TSRN004314011-5014	TWA	3 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	6 ppm	US. ACGIH Threshold Limit Values (2011)
Proprietary Component, TSRN004314011-5060	TWA	5 ppm	US. ACGIH Threshold Limit Values (2011)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Proprietary Glycol Ether, TSRN004314011-5111 (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEI (03 2013)

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.
Eye/face protection:	Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes.
Skin Protection	
Hand Protection:	Chemical resistant gloves
Other:	Wear suitable protective clothing and gloves.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	Do not eat, drink or smoke when using the product. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with skin. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

9. Physical and chemical properties

Appearance

Physical state:	Liquid
Form:	Liquid
Color:	No data available.
Odor:	No data available.
Odor threshold:	No data available.
pH:	10.5 (100 g/l, 20 °C)
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	> 100 °C
Flash Point:	> 100 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.

Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.05 (25 °C)
Solubility(ies)	
Solubility in water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Excessive heat.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	Harmful if inhaled. Spray mists irritate the respiratory system, and cause coughing and difficulties in breathing.
Skin Contact:	Causes skin burns.
Eye contact:	Causes eye burns.
Ingestion:	Toxic if swallowed.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral	
Product:	ATEmix (Rat): 990.58 mg/kg
Dermal	
Product:	ATEmix (Rabbit): 833.97 mg/kg
Inhalation	
Product:	No data available.

Repeated dose toxicity

Product: None known.

Skin Corrosion/Irritation

Product: Causes skin burns.

Serious Eye Damage/Eye Irritation

Product: May cause chemical eye burns.

Respiratory or Skin Sensitization

Product: None known.

ACGIH Sensitization
Carcinogenicity

Product: Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Proprietary Component, Overall evaluation: 2B. Possibly carcinogenic to humans.
TSRN004314011-5060

ACGIH Carcinogen List:

No carcinogenic components identified

Germ Cell Mutagenicity
In vitro

Product: No mutagenic components identified

In vivo

Product: No mutagenic components identified

Reproductive toxicity

Product: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product: None known.

Specific Target Organ Toxicity - Repeated Exposure

Product: None known.

Aspiration Hazard

Product: Not classified

Other effects:

None known.

12. Ecological information

Ecotoxicity
Acute hazards to the aquatic environment
Fish

Product: No data available.

Specified substance(s):

Proprietary Glycol Ether, TSRN004314011-5111	LC 50 (Bluegill (Lepomis macrochirus), 96 h): 1,490 - 1,700 mg/l LC 50 (Pimephales promelas, 96 h): 2,137 mg/l LC 50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l LC 50 (Menidia sp., 96 h): 1,250 mg/l
Proprietary Organic	LC 50 (Oryzias latipes, 96 h): > 100 mg/l

Oxide, TSRN004314011-5029

Proprietary Amine,
TSRN004314011-5014

LC 50 (Cyprinus carpio, 96 h): 349 mg/l
NOAEL (Danio rerio, fertilized eggs): 1,221 mg/l
LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 114 - 196 mg/l
LC 50 (Goldfish (Carassius auratus), 96 h): 170 mg/l
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1,810 - 2,370 mg/l
LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 8.9 mg/l
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 3.5 - 9.22 mg/l
EC 50 (Fathead minnow (Pimephales promelas), 96 h): 9 mg/l

Proprietary Component,
TSRN004314011-5060

Aquatic Invertebrates

Product:

No data available.

Specified substance(s):

Proprietary Glycol Ether,
TSRN004314011-5111

LC 50 (Daphnia magna, 48 h): > 1,000 mg/l
EC 50 (Daphnia magna, 48 h): 881 - 2,650 mg/l
NOAEL (Daphnia magna, 48 h): > 500 mg/l
NOAEL (Daphnia magna, 48 h): 171 mg/l
EC 50 (Daphnia magna, 48 h): 94 - 852 mg/l

Proprietary Organic
Oxide, TSRN004314011-5029

Proprietary Amine,
TSRN004314011-5014

LC 50 (Water flea (Daphnia magna), 24 h): 140 mg/l
EC 50 (Daphnia magna, 48 h): 32 - 65 mg/l
LC 50 (Common shrimp, sand shrimp (Crangon crangon), 48 h): > 100 mg/l
EC 50 (Daphnia magna, 48 h): 4 mg/l

Proprietary Component,
TSRN004314011-5060

Chronic hazards to the aquatic environment

Fish

Product:

No data available.

Specified substance(s):

Proprietary Glycol Ether,
TSRN004314011-5111

NOAEL (Danio rerio, 21 d): > 100 mg/l

Proprietary Amine,
TSRN004314011-5014

NOAEL (Salvelinus fontinalis, 100 d): 1.77 mg/l
NOAEL (Oryzias latipes, 41 d): 1.24 mg/l
LOAEL (Oryzias latipes, 41 d): 3.55 mg/l
LC 50 (Oryzias latipes, 14 d): > 100 mg/l
NOAEL (Salvelinus fontinalis, 60 d): 14.1 mg/l

Aquatic Invertebrates

Product:

No data available.

Specified substance(s):

Proprietary Glycol Ether,
TSRN004314011-5111

EC 50 (Daphnia magna, 21 d): 297 mg/l
NOAEL (Daphnia magna, 21 d): 100 mg/l
EC 50 (Ceriodaphnia dubia, 7 d): 138 mg/l
NOAEL (Ceriodaphnia dubia, 7 d): 56 mg/l
LC 50 (Ceriodaphnia dubia, 7 d): 2,575 mg/l

Proprietary Organic
Oxide, TSRN004314011-5029

Proprietary Amine,
TSRN004314011-5014

NOAEL (Daphnia magna, 21 d): 0.85 mg/l
EC 50 (Daphnia magna, 21 d): 2.5 - 15.75 mg/l
LC 80 (Culex pipiens quinquefasciatus, larvae, 21 d): 1 mg/l

Proprietary Component,
TSRN004314011-5060

Toxicity to Aquatic Plants

Product:

No data available.

Specified substance(s):

Proprietary Organic Oxide, TSRN004314011-5029	EC 50 (Green algae (<i>Selenastrum capricornutum</i>), 96 h): > 1,000 mg/l
Proprietary Component, TSRN004314011-5060	EC 50 (Green algae (<i>Chlorella vulgaris</i>), 10 d): > 50 mg/l EC 50 (Duckweed (<i>Lemna minor</i>), 12 d): 13.2 mg/l

Persistence and Degradability
Biodegradation

Product: There are no data on the degradability of this product.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)

Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Proprietary Glycol Ether, TSRN004314011-5111	Log Kow: 0.83
Proprietary Organic Oxide, TSRN004314011-5029	Log Kow: -0.77
Proprietary Amine, TSRN004314011-5014	Log Kow: -1.31
Proprietary Component, TSRN004314011-5060	Log Kow: 0.88

Mobility

Mobility in soil: The product is water soluble and may spread in water systems.

Other adverse effects: Harmful to aquatic life with long lasting effects.

13. Disposal information

Disposal methods

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

ADR

14.1 UN Number:	UN 2922
14.2 UN Proper Shipping Name:	CORROSIVE LIQUID, TOXIC, N.O.S.(CONTAINS ALKANOLAMINE, GLYCOL ETHER)
14.3 Transport Hazard Class(es)	
Class(es):	8, 6.1
Label(s):	8, 6.1
Hazard No. (ADR):	86
Tunnel restriction code:	(E)
14.4 Packing Group:	II
Marine Pollutant:	Not a Marine Pollutant
Limited quantity	
Excepted quantity	
14.8 Environmental Hazards:	Not a Marine Pollutant
14.9 Special precautions for user:	—

IATA

UN Number:	UN 2922
Proper Shipping Name:	Corrosive liquid, toxic, n.o.s.(contains Alkanolamine, Glycol Ether)
Transport Hazard Class(es):	
Class(es):	8, 6.1
Label(s):	8, 6.1
Packing Group:	II
Environmental Hazards	
Marine pollutant:	Not a Marine Pollutant
Special precautions for user:	—

IMDG

UN Number:	UN 2922
UN Proper Shipping Name:	CORROSIVE LIQUID, TOXIC, N.O.S.(CONTAINS ALKANOLAMINE, GLYCOL ETHER)
Transport Hazard Class(es)	
Class(es):	8, 6.1
Label(s):	8, 6.1
EmS No.:	F-A, S-B
Packing Group:	II
Environmental Hazards	
Marine Pollutant:	Not a Marine Pollutant
Special precautions for user:	—

15. Regulatory information

Malaysia. Medical Surveillance Chemicals, Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health): Schedule 2

Proprietary Glycol Ether, TSRN004314011-5111

Malaysia. Prohibited Use of Substances [Occupational Safety and Health (Prohibition of Use of Substance) Order]

Not Regulated

Malaysia. Controlled Precursors Subject to Conditional Exports (Customs (Prohibition of Exports) Order 2012, Second Schedule

Not Regulated

Malaysia. Controlled Precursors Subject to Conditional Imports (Customs (Prohibition of Imports) Order 2012, Part I of Second Schedule)

Not Regulated

Malaysia. CWC. Chemical Weapons Convention Act 2005, (Schedules 1-3)

Not Regulated

Malaysia. Ozone Depleting Substances (ODS) (Environmental Quality (Prohibition on the Use of CFC and Other Gases as Propellants and Blowing Agents) Order 1993)

Not Regulated

Malaysia. Lists of Halon Management (Environmental Quality (Halon Management) Regulation 1999)

Not Regulated

Malaysia. Refrigerant Hazardous Substance (Environmental Quality (Refrigerant Management) Regulation 1999)

Not Regulated

Malaysia. Active Ingredients of Pesticide Product (Pesticide Act 1974, First Schedule), as amended

Not Regulated

International regulations
Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	Not in compliance with the inventory.
Mexico INSQ:	Not in compliance with the inventory.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

16. Other information, including date of preparation or last revision

Issue Date:	07-10-2018
Revision Date:	No data available.
Version #:	3.1
Source of information:	No data available.
Further Information:	No data available.

Disclaimer:

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