

SAFETY DATA SHEET

ALC 1600 PERMEATE
KWAR-15
01
Not Applicable
E-Coat® waste stream

Manufacturer/Importer/Supplier/Distributor information Manufacturer

Kaiser	Aluminum Warrick LLC
4000 V	V. State Route 66
Newbu	ırgh, IN 47629

Emergency Information	CHEMTREC: +1-703-527-3887 +1-800-424-9300 (24 Hour Emergency Telephone, multiple languages spoken); Kaiser Warrick: +1-877-335-9886 (24 Hour Emergency Telephone, only English spoken)
Website	For a current Material Safety Data Sheet, refer to Kaiser Aluminum website: https://www.kaiseraluminum.com/customer-portal/safety-data-sheets/

2. Hazard(s) identification

Classification

This product is not hazardous according to OSHA 29CFR 1910.1200.

Physical hazards	Not classified.	
Health hazards	Sensitization, skin	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	Not available.	
Precautionary statement		
Prevention	Not available.	
Response	Not available.	
Storage	Not available.	
Disposal	Not available.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Propylene glycol monomethyl ether		107-98-2	1
2-DIMETHYLAMINOETHANOL		108-01-0	0.3
Isopropyl alcohol		67-63-0	0.1
n-Butyl alcohol		71-36-3	0.1
Water		7732-18-5	98

4. First-aid measures

Eye contact	Rinse with water. Consult a physician.
Skin contact	Remove contaminated clothing. Wash off with soap and plenty of water.
Inhalation	If inhaled, remove to fresh air. Get medical attention, if needed.
Ingestion	If swallowed, dilute by drinking water. Recommend quantities up to 30 mL (~1 oz.) in children and 250 mL (~9 oz.) in adults. Consult a physician.
Most important symptoms/effects, acute and delayed	Not available.

5. Fire-fighting measures

Suitable extinguishing media	Use fire fighting methods and materials that are appropriate for surrounding fire. Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	Do not use water jet.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.
Fire fighting	Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus

Fire fighting
equipment/instructionsFirefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus
and full protective clothing when appropriate.General fire hazardsNon-combustible.

Explosion data	
Sensitivity to mechanical impact	Not sensitive.
Sensitivity to static discharge	Not available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Not available.	
Personal precautions, protective equipment and emergency procedures		
For emergency responders	Avoid contact with eyes and prolonged skin contact. Use personal protection recommended in Section 8 of the SDS.	
Evacuation procedures	Keep unnecessary personnel away.	
Methods and materials for containment and cleaning up	Stop leak/spill if without risk. Wash spillages into the effluent treatment plant.	
Environmental precautions	Do not allow to enter drains, sewers or watercourses.	

7. Handling and storage

Handling

Wear protective gloves/eye protection/face protection. Avoid exposure - obtain special instructions before use. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation.

Store away from incompatible materials (See Section 10). Store in tightly closed original container in a well-ventilated place.

8. Exposure controls/personal protection

Components	ts for Air Contaminants (29 CFR Type	Value
Isopropyl alcohol (CAS 67-63-0)	PEL	980 mg/m3
n-Butyl alcohol (CAS	TWA	400 ppm 300 mg/m3
71-36-3)		100 ppm
US ACGIH Threshold I im	it Values: Short Term Exposure	
Components	Туре	Value
lsopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
Propylene glycol monomethyl ether (CAS	STEL	100 ppm
107-98-2) US ACGIH Threshold Lim	it Values: Time Weighted Avera	age (TWA): mg/m3 & ppm
Components	Туре	Value
Isopropyl alcohol (CAS	TWA	200 ppm
67-63-0) n-Butyl alcohol (CAS 71-36-3)	TWA	20 ppm
Propylene glycol monomethyl ether (CAS 107-98-2)	TWA	50 ppm
posure guidelines		
US - Tennessee OELs: Sk	in designation	
n-Butyl alcohol (CAS 7 US. California Code of Re	1-36-3) gulations, Title 8, Section 5155	Can be absorbed through the skin. . Airborne Contaminants
	1-BUTANOL (CAS 71-36-3) L MONOMETHYL ETHER (CAS	Can be absorbed through the skin. Can be absorbed through the skin.
	s Substances List (Minn. Rules	5206.0400).
n-Butyl alcohol (CAS 7	1-36-3)	Skin designation applies.
propriate engineering ntrols	Not available.	
lividual protection measure	es, such as personal protective	equipment
Eye/face protection	Wear safety glasses and face	e shield to avoid direct contact with eyes and face.
Skin protection	_	
Hand protection		npervious gloves should be used at all times when handling this or neoprene gloves are recommended.
Other	Not available.	
Respiratory protection	Under normal conditions, res	pirator is not normally required.
Thermal hazards	Not available.	
ntrol parameters		
Physical and chemica	l properties	
Form	Liquid.	
Color	Clear	
lor	amine-like	
or threshold	Not available.	
	Not available.	

Density

0.92 g/cm3 estimated

Melting point/freezing point	-139 °F (-95 °C) estimated
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	> 200.0 °F (> 93.3 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - upper (%)	Not available.
Flammability limit - lower (%)	Not available.
Explosive properties	Not available.
Vapor pressure	0.17 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under normal conditions of use, storage, and transportation as shipped.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Not available.
Incompatible materials	Oxidizing material.
Hazardous decomposition products	Not available.

11. Toxicological information

Health effects associated with compounds formed during processing

No new/additional compounds are expected to be formed during processing.

Information on likely routes of exposure

Eye contact	Contact Direct : Can cause irritation.
Skin contact	Direct contact: Can cause irritation.
Inhalation	Direct contact Can cause irritation of the respiratory tract.
Ingestion	Not available.
Symptoms related to the physical, chemical and toxicological characteristics	Not available.

Information on toxicological effects

Components	Species	Test Results
Isopropyl alcohol (CAS 67-	-63-0)	
Acute		
Dermal		
LD50	Rabbit	12800 mg/kg
Oral		
LD50	Mouse	3600 mg/kg
	Rabbit	5.03 g/kg

Components	Species	Test Results
	Rat	5045 mg/kg
		4.7 g/kg
Other		
LD50	Mouse	1509 mg/kg
	Rat	1099 mg/kg
-Butyl alcohol (CAS 71-36-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	3400 mg/kg
Inhalation		
LC50	Rat	8000 ppm, 4 Hours
Oral		
LD50	Rat	790 mg/kg
Propylene glycol monomethyl ethe	er (CAS 107-98-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	13 g/kg
Inhalation		
LC50	Guinea pig	15000 mg/l, 10 Hours
	Rat	54.6 mg/l, 4 Hours
Oral		
LD50	Dog	4.6 g/kg
	Mouse	10.8 g/kg
	Rabbit	5.3 g/kg
	Rat	5.71 g/kg
Acute toxicity		
Skin corrosion/irritation	Not classified. Based on available data,	the classification criteria are not met.
Serious eye damage/eye	Not classified. Based on available data,	
rritation		
Respiratory or skin sensitization	Not classified. Based on available data, the classification criteria are not met.	
Respiratory sensitization	Not classified. Based on available data, the classification criteria are not met.	
Skin sensitization	Not classified. Based on available data,	the classification criteria are not met.
Germ cell mutagenicity	Not available.	
Carcinogenicity	Not classified. Based on available data, the classification criteria are not met.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not listed. US OSHA Hazard Categorie	s (10)	
Not regulated.		
US OSHA Hazard Categorie	s (9)	
Not regulated. US. National Toxicology Pre	ogram (NTP) Report on Carcinogens	
	ulated Substances (29 CFR 1910.1001-1	050)
Not regulated.		
Reproductive toxicity	Not classified. Based on available data,	the classification criteria are not met.
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	

Aspiration hazard

Not available.

12. Ecological information

cotoxicity			
Components		Species	Test Results
Isopropyl alcohol (CAS 67-6	63-0)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
n-Butyl alcohol (CAS 71-36-	-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1897 - 2072 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	100 - 500 mg/l, 96 hours
Persistence and degradability	Not available.		
Bioaccumulative potential	Not available.		
Partition coefficient n-octa	anol / water (log l	•	
Isopropyl alcohol n-Butyl alcohol		0.05 0.88	
Mobility in soil	Not available.	0.00	
Other adverse effects	Not available.		
13. Disposal consideration	ons		
Disposal instructions	Not available.		
Waste codes	Not regulated.		

Waste from residues / unused	Not available.
products	
Contaminated packaging	Dispose of in accordance with local regulations.

14. Transport information

General Shipping Information

Basic Shipping Information

Proper shipping name Not regulated

General Shipping Notes

When "Not regulated", enter the proper freight classification, SDS Number and Product Name onto the shipping paperwork.

Disclaimer

This section provides basic classification information and, where relevant, information with respect to specific modal regulations, environmental hazards and special precautions. Otherwise, it is presumed that the information is not available/not relevant

15. Regulatory information

US federal regulations

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Isopropyl alcohol (CAS 67-63-0)	Listed.	
n-Butyl alcohol (CAS 71-36-3)	Listed.	
Propylene glycol monomethyl ether (CAS 107-98-2)	Listed.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		

Not regulated.

US OSHA Hazard Categories (9)

Not regulated.

US OSHA Hazard Categories (10)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories	

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Not regulated.

US state regulations

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region	Inventory name O	n inventory (yes/no)*	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes	
Canada	Domestic Substances List (DSL)	Yes	
Canada	Non-Domestic Substances List (NDSL)	No	
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes	
Europe	European List of Notified Chemical Substances (ELINCS)	No	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes	
Korea	Existing Chemicals List (ECL)	Yes	
New Zealand	New Zealand Inventory	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

SDS Status

Origination date: April 1, 2021.

Precautionary statement

Prevention Not applicable.

Response

Not applicable.

Storage Not applicable.

Disposal

Not applicable.

<None>

Supplemental information

None.

FIRE FIGHTING MEASURES: Non-combustible. Use fire fighting methods and materials that are appropriate for surrounding fire. Water spray, foam, dry powder or carbon dioxide.

IN CASE OF SPILL: Stop leak/spill if without risk. Wash spillages into the effluent treatment plant.

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