

SAFETY DATA SHEET

READY MIX COOLANT

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product identifier

Product name : ACCERON READY MIX COOLANT
Product code. : ACN - 2000
Relevant identified uses of the substance or mixture and uses advised against
Product use : Coolant and antifreeze.

Details of the supplier of the safety data sheet

Supplier : ACCERON INDUSTRIES INDIA PVT LTD
 63/A, INDUSTRIAL AREA, ROAD NO – 8,
 GOVINDPURA, BHOPAL, M.P., INDIA
Emergency telephone number : (+91) 8305096448

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 4, H302
 STOT RE 2, H373

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xn; R22
Human health hazards : Harmful if swallowed.

See section 11 for toxicological information and section 12 for ecotoxicological information.

See Section 16 for the full text of the R phrases or H statements declared above.

Label elements

Hazard pictograms



Signal word : Warning
Hazard statements : Harmful if swallowed.
 May cause damage to organs through prolonged or repeated exposure if swallowed.
 (kidneys)
Precautionary statements

Prevention : Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Keep out of reach of children. Read label before use. If medical advice is needed, have product container or label at hand.

Response Storage : Get medical attention if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
 : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : ethanediol

Other hazards

Other hazards which do not result in classification : Not available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
ethanediol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	30 - 60	Xn; R22	Acute Tox. 4, H302 STOT RE 2, H373	[1] [2]
Hexanoic acid, 2-ethyl-, sodium salt	EC: 243-283-8 CAS: 19766-89-3	1 - 2	Repr. Cat. 3; R63	Repr. 2, H361fd	[1]
Sodium borate	EC: 215-540-4 CAS: 12179-04-3	0 - 1	Repr. Cat. 2; R60, R61 Xi; R41	Eye Dam. 1, H318 Repr. 1B, H360FD	[1]
Aversive agent	-	< 0.01	Xn; R22 See Section 16 for the full text of the R- phrases declared above.	Acute Tox. 4, H302 See Section 16 for the full text of the H statements declared above.	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation : If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Skin contact : Wash contaminated skin with soap and water. Get medical attention.

Eye contact : In case of contact with eyes, rinse immediately with plenty of water. Get medical attention following exposure or if feeling unwell.

Ingestion : Call medical doctor or poison control centre immediately. Do not induce vomiting unless directed to do so by medical personnel. Wash out mouth with water. If affected person is conscious, give plenty of water to drink. (Coolant. Contains ethylene glycol)

Protection of first-aiders : Not applicable

Most important symptoms and effects, both acute and delayed

Potential acute health effects

Inhalation : This product is not likely to volatilise rapidly into the air because of its low vapour pressure.

Skin contact : Defatting to the skin.

Eye contact : May cause slight transient irritation.

Ingestion : Harmful if swallowed. Exposure can cause stomach pains, vomiting and diarrhoea.

Over-exposure signs/symptoms

Inhalation : May cause slight transient irritation.

Skin contact : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Eye contact : May cause slight transient irritation.(redness)

Ingestion : Exposure can cause stomach pains, vomiting and diarrhoea.

Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically.

Specific treatments : Give 50 ml of pure ethanol in drinkable concentration.

See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

- Suitable** : Recommended: alcohol-resistant foam, CO₂,
Not suitable : powders Do not use water jet.

Special hazards arising from the substance or mixture

- Hazardous combustion products** :  Decomposition products may include the following materials: metal oxide/oxides carbon oxides

Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** :  Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Refer to protective measures listed in sections 7 and 8.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Spill** :  Stop leak if without risk. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

- Protective measures** :  Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid contact of spilt material and runoff with soil and surface waterways.

Advice on general occupational hygiene

- :  Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

- :  Do not store in unlabelled containers. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Specific end use(s)

Recommendations Industrial sector specific solutions

- :  Coolant and antifreeze.
: Not available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Ingredient name	Occupational exposure limits
ethanediol	NAOSH (Ireland, 12/2011). Absorbed through skin. OELV-8hr: 10 mg/m ³ 8 hours. Form: particulate OELV-15min: 104 mg/m ³ 15 minutes. Form: vapour OELV-15min: 40 ppm 15 minutes. Form: vapour OELV-8hr: 52 mg/m ³ 8 hours. Form: vapour OELV-8hr: 20 ppm 8 hours. Form: vapour
Sodium borate	NAOSH (Ireland, 12/2011). OELV-8hr: 1 mg/m ³ 8 hours.

Derived effect levels

Product/ingredient name	Type	Exposure	Value	Population	Effects
ethane-1,2-diol	DNEL	Long term Dermal	106 mg/kg	Workers	Systemic
	DNE	Long term Inhalation	bw/day	Workers	Local
	L	Long term Dermal	35 mg/m ³	Man via the environment	Systemic
	DNE	Long term Inhalation	53 mg/kg	t Man via the environment	Local
	L		bw/day		
	DNEL		7 mg/m ³		

Predicted effect concentrations

No PECs available.

Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Personal protective equipment

Respiratory protection

: Provide adequate ventilation.

Hand protection

: Use chemical-resistant, impervious gloves.: neoprene or nitrile.

Eye protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Environmental exposure controls

: Do not allow to enter drains or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Blue.

Odour : Not available.

Odour threshold : Not available.

pH : 8

Melting point/freezing

Point : -38°C (-36.4°F)

Initial boiling point and boiling range : >100°C (>212°F)

Flash point : Closed cup: Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Burning time : Not applicable.

Burning rate : Not applicable.

Upper/lower flammability or explosive limits : Not available.

Vapour pressure : 0.002 kPa (0.015 mm Hg) [room temperature]

Vapour density : Not available.

Relative density : Not available.

Density : 1.07 g/cm³ [20°C (68°F)]

Solubility : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

Other information

No additional information.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Chemical stability

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

Hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Potential acute health effects

Inhalation : This product is not likely to volatilise rapidly into the air because of its low vapour pressure.

Skin contact : Defatting to the skin.

Eye : ☒ May cause slight transient irritation.

contact : Harmful if swallowed. Exposure can cause stomach pains, vomiting and diarrhoea.

Ingestion

Over-exposure signs/symptoms

Inhalation : ☒ May cause slight transient irritation.

Skin contact : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Eye contact : May cause slight transient irritation.(redness)

Ingestion : Exposure can cause stomach pains, vomiting and diarrhea.

Relevant information for the mixture and/or the ingredients is presented below.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanediol	LD50 Oral	Cat	1650 mg/kg	-

Irritation/Corrosion

Product/ingredient	Result	Specie	Score	Exposure	Observation
Sodium borate	Eyes - Severe irritant	Rabbit	-	100 milligrams	-

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexanoic acid, 2-ethyl-, sodium salt	Positive - Unreported	-	-	-
Sodium borate	Positive - Oral	-	-	-

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure if swallowed.

Mutagenicity : Not applicable
Other information : Not available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Environmental effects : Ecotoxicological data on the substances included in this product show that the product is not classified as harmful to the environment.

Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
	-	-	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Mobility : Water-soluble liquid

Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

Other adverse effects : No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Methods of disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
14 06 03*	other solvents and solvent mixtures

Packaging

Methods of disposal : Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special

precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

Toxic to reproduction

Ingredient name	Status	Reference number
Disodium tetraborate	Candidate	ED/30/2010

Other EU regulations

Product use : Consumer applications.

Norway

SECTION 16: OTHER INFORMATION

Full text of abbreviated

R phrases

: R60- May impair fertility.
R61- May cause harm to the unborn child.
R63- Possible risk of harm to the unborn child.
R22- Also harmful if swallowed.
R41- Risk of serious damage to eyes.
: Repr Cat. 2 – Toxic to reproduction category 2
Repr Cat. 3 – Toxic to reproduction category 3
Xn - Harmful
Xi – Irritant

Full text of classifications [DSD/DPD]

Full text of abbreviated H statements

: H302Harmful if swallowed.
H318 Causes serious eye damage.
H360FD May damage fertility. May damage the unborn child.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

Full text of classifications [CLP/GHS]

: Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4
Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Repr. 1B, H360FD TOXIC TO REPRODUCTION [Fertility and Unborn child] - Category 1B
Repr. 2, H361fd TOXIC TO REPRODUCTION [Fertility and Unborn child] - Category 2
STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): ORAL [kidneys] - Category 2