

# SAFETY DATA SHEET

#### **ADVANTAGE P2-MD-SS**

SDS according to the Work Health and Safety Regulations (WHS)

#### **Section 1. Identification**

Product name : ADVANTAGE P2-MD-SS

Product code : 42072637-02 Other means of : Not available.

identification

UN number : Not regulated.

Relevant identified uses of the substance or mixture and uses advised against

Relevant uses : Metalworking fluid
Uses advised against : Any other purpose.

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operation)

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## Section 2. Hazard(s) identification

This product is considered hazardous under the Work Health and Safety Regulations.

Classification of the : SKIN CORROSION/IRRITATION - Category 2

substance or mixture SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

**GHS label elements** 

Hazard pictograms :



Corrosion

Signal word : DANGER

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## Section 2. Hazard(s) identification

Hazard statements : Causes skin irritation.

Causes serious eye damage.

**Precautionary statements** 

**Prevention**: Wear eye or face protection. Wash thoroughly after handling.

**Response** : Immediately call a POISON CENTER or doctor. Take off contaminated clothing and

wash it before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Storage: Not applicable.Disposal: Not applicable.Supplemental label: Not applicable.

elements

result in classification

Other hazards which do not : None known.

## Section 3. Composition and ingredient information

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
Mineral oil	≥10 - ≤30	**
Amine neutralized carboxylic Acid	≤8.6	-
Amine neutralized with fatty acid	≤5	-
Amine neutralized carboxylic Acid	≤4.7	-
ammonium dihydrogenorthophosphate	≤4.7	7722-76-1
1-aminopropan-2-ol	≤3	78-96-6
Poly(oxy-1,2-ethanediyl), .alpha(carboxymethyl)omegahydroxy-,	≤3	68954-89-2
C10-16 and C12-20-unsatd. alkyl ethers		
Alcohols, C10-12, ethoxylated propoxylated	≤3	68154-97-2
Amine neutralized carboxylic Acid	≤2.5	-
Amine neutralized carboxylic Acid	≤2.2	-
2,2',2"-nitrilotriethanol	≤3	102-71-6
Amine neutralized substituted triazole	≤1	-

<sup>\*\*</sup> May contain : 64742-52-5

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

The remaining composition is a mixture of non-classified ingredients or additives below the threshold for disclosure.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

General advice : Get medical attention immediately. If medical advice is needed, have product

container or label at hand. Use personal protective equipment as required. Remove contaminated clothing and wash it before reuse. Wash skin surfaces

thoroughly after contact.

**Inhalation**: Move affected person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Get medical attention.

**Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing and wash it

before reuse. Get medical attention if symptoms occur.

**Eye contact**: Get medical attention immediately. Flush with plenty of water for at least 15 minutes,

occasionally lifting the upper and lower eyelids. Remove contact lenses, if present

and easy to do.

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### Section 4. First aid measures

Ingestion

: Ingestion may cause gastrointestinal irritation and diarrhea. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed

**Inhalation** : Not expected under normal use.

Skin contact: pain or irritation,rednessEye contact: pain,redness,watering,burnsIngestion: Not expected under normal use.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Use personal protective equipment as required.

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: In a fire, hazardous decomposition products may be produced. carbon oxides (CO, CO<sub>2</sub>) nitrogen oxides phosphorus oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: 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

: No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see Section 8). Keep unnecessary personnel away. Avoid breathing vapor or mist. Provide adequate ventilation.

For emergency responders:

If specialized 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". Evacuate area.

**Environmental precautions** 

: Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Do not allow any potentially contaminated water, including rain water, runoff from fire fighting or spills, to enter any waterway, sewer or drain.

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### Section 6. Accidental release measures

#### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls and personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Mineral oil	ACGIH TLV (United States). TWA: 5 mg/m³ 8 hours. STEL: 10 mg/m³ 15 minutes.
2,2',2"-nitrilotriethanol	Safe Work Australia (Australia, 4/2018). Skin sensitizer. TWA: 5 mg/m³ 8 hours.

#### **Biological Exposure Indices (BEI)**

None.

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

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## Section 8. Exposure controls and personal protection

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. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Keep equipment clean.

Eye/face 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

Other skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

Use appropriate respiratory protection if there is a risk of exceeding any exposure limits.

Thermal hazards

: Not expected under normal use. Not relevant/applicable due to nature of the product.

## Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state : Liquid.

Color : Clear., Amber.

Odor : Mild.

Odor threshold : Not available.

**pH** : 9.6 [Conc. (% w/w): 5%]

Melting point: Not available.Boiling point: Not available.

Flash point : Open cup: Not applicable. [Cleveland.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.

Relative density : 0.98

Solubility : Emulsifies.

Solubility in water : Not available.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

**Viscosity** : Kinematic (40°C (104°F)): 0.57 cm²/s (57 cSt)

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## Section 9. Physical and chemical properties

Flow time (ISO 2431) : Not available.

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : No specific measures identified.

Incompatible materials : Strong oxidizing materials. strong acids. strong alkalis

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# **Section 11. Toxicological information**

#### Information on toxicological effects

**Acute toxicity**: Based on available data, the classification criteria are not met.

Acute toxicity estimates

 Oral
 2997.44 mg/kg

 Dermal
 7975.79 mg/kg

#### **Numerical measures of toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
ammonium	LD50 Dermal	Rabbit	5000 mg/kg	-
dihydrogenorthophosphate				
	LD50 Oral	Rat	2000 mg/kg	-
1-aminopropan-2-ol	LD50 Dermal	Rabbit	1851 mg/kg	-
	LD50 Oral	Rat	1715 mg/kg	-
Poly(oxy-1,2-ethanediyl), .	LD50 Oral	Rat	>2000 mg/kg	-
alpha(carboxymethyl)				
omegahydroxy-, C10-16				
and C12-20-unsatd. alkyl				
ethers				
Alcohols, C10-12,	LD50 Dermal	Rabbit	>2000 mg/kg	-
ethoxylated propoxylated				
2,2',2"-nitrilotriethanol	LD50 Oral	Rat	7.39 g/kg	-

### Irritation/Corrosion : Causes serious eye damage. Causes skin irritation.

Product/ingredient name	Result	Species	Score	Exposure	Observation
1-aminopropan-2-ol	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
				ug	
	Eyes - Severe irritant	Rabbit	-	970 ug	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	485 mg	-
2,2',2"-nitrilotriethanol	Eyes - Mild irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Human	-	72 hours 15	-
				mg I	
	Skin - Severe irritant	Mouse	-	50 %	-
	Skin - Mild irritant	Rabbit	_	24 hours 560	-
				mg	

**Sensitization**: Based on available data, the classification criteria are not met.

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## **Section 11. Toxicological information**

Mutagenicity : Based on available data, the classification criteria are not met.Carcinogenicity : Based on available data, the classification criteria are not met.

Product/ingredient name	IARC
2,2',2"-nitrilotriethanol	3

**Reproductive toxicity**: Based on available data, the classification criteria are not met.

**Specific target organ toxicity (single exposure)** : Based on available data, the classification criteria are not

met.

Name	3.5	Route of exposure	Target organs
ammonium dihydrogenorthophosphate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated

exposure)

: Based on available data, the classification criteria are not

met

**Aspiration hazard**: Based on available data, the classification criteria are not met.

Name	Result	
Mineral oil	ASPIRATION HAZARD - Category 1	

Other information : None identified.

#### Information on the likely routes of exposure

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation.

**Eye contact** : Causes serious eye damage.

**Ingestion**: No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

None identified.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation**: Not expected under normal use.

Skin contact: pain or irritation,rednessEye contact: pain,redness,watering,burnsIngestion: Not expected under normal use.

## **Section 12. Ecological information**

This material is toxic to aquatic life. This material is harmful to aquatic life with long lasting effects.

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
ammonium dihydrogenorthophosphate	Acute LC50 86 mg/l	Fish - Peixes	96 hours
1-aminopropan-2-ol	Acute EC50 32.7 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 108.82 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 210 mg/l Fresh water	Fish - Carassius auratus	96 hours
Alcohols, C10-12, ethoxylated propoxylated	Acute EC50 10 to 100 mg/l	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 12 mg/l	Daphnia - Daphnia magna	48 hours
2,2',2"-nitrilotriethanol	Acute EC50 609.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11800000 μg/l Fresh water Chronic NOEC 16000 μg/l Fresh water	Fish - Pimephales promelas Daphnia - Daphnia magna	96 hours 21 days

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# Section 12. Ecological information

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
1-aminopropan-2-ol	-0.96	0.11	low
2,2',2"-nitrilotriethanol	-1	<3.9	low

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

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

## Section 13. Disposal considerations

Disposal methods

: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Empty containers or liners may retain some product residues. Empty containers retain product residue and can be hazardous. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

## **Section 14. Transport information**

	ADG	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.

#### **Additional information**

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 in bulk according : Not available.

to IMO instruments

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## **Section 15. Regulatory information**

#### Standard for the Uniform Scheduling of Medicines and Poisons

Not Scheduled

#### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

#### International regulations

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed

#### **Inventory list**

**Australian Inventory of Industrial Chemicals**: All components are listed or exempted.

(AIIC)

New Zealand Inventory of Chemicals (NZIoC) : All components are listed or exempted.

## Section 16. Any other relevant information

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revision

: 12/2/2021

Version : 1

**Key to abbreviations** : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

IARC = International Agency for Research on Cancer.

References : Safety data sheets of raw materials, global regulatory body information,

scientific literature, and testing data .

Indicates information that has changed from previously issued version.

#### Notice to reader

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is correct to the best of our knowledge, information and belief at the date of its publication. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability

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# Section 16. Any other relevant information

for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

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