

# Safety Data Sheet

## ARDROX 6333A

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### 1. Identification

#### Product identifier used on the label

**ARDROX 6333A**

#### Recommended use of the chemical and restriction on use

Recommended use\*: Detergents  
Unsuitable for use: Uses other than recommended

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

Company:  
Chemetall U.S., Inc.  
675 Central Avenue  
New Providence, NJ 07974 – USA  
+1 800 526-4473  
sds.na-chemetall@basf.com

#### Emergency telephone number

24 Hour Emergency Response Information  
CHEMTREC: 800-424-9300, +1-703-527-3887

#### Other means of identification

Chemical family: organic compounds, inorganic base, Water, inorganic salts

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

Skin Sens.	1	Skin sensitization
Skin Corr./Irrit.	1	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Repr.	2 (fertility, unborn child)	Reproductive toxicity

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### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P260	Do not breathe mist or vapour or spray.
P264	Wash contaminated body parts thoroughly after handling.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.
P201	Obtain special instructions before use.

Precautionary Statements (Response):

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical attention.

Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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### 3. Composition / Information on Ingredients

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Boric acid (HBO<sub>2</sub>), potassium salt  
CAS Number: 13709-94-9  
Content (W/W):  $\geq 7.0 - < 10.0\%$   
Synonym: Kaliummetaborat, Reakt.Prod.

Sodium Hydroxide  
CAS Number: 1310-73-2  
Content (W/W):  $\geq 3.0 - < 5.0\%$   
Synonym: Sodium hydroxide; Caustic soda

Octenyl succinic anhydride  
CAS Number: 26680-54-6  
Content (W/W):  $\geq 3.0 - < 5.0\%$   
Synonym: NOSA

Ethoxylated Secondary Alcohols ( C11 - 15)  
CAS Number: 68131-40-8  
Content (W/W):  $\geq 1.0 - < 3.0\%$   
Synonym: No data available.

Fatty Alcohol Alkoxylate  
CAS Number: 166736-08-9  
Content (W/W):  $\geq 1.0 - < 3.0\%$   
Synonym: No data available.

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Keep warm, calm and covered up. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

##### If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

##### If on skin:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

##### If in eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

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### If swallowed:

Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Rinse mouth immediately with water. Keep at rest.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

*Information on: Sodium Hydroxide*

*Symptoms: Overexposure may cause: vomiting, circulatory collapse, death, stenosis, dyspnea, salivation, severe pain*

*Information on: Boric acid (HBO<sub>2</sub>), potassium salt*

*Symptoms: Overexposure may cause: Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

Hazards: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Antidote: No known specific antidote.  
Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:  
water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Hazardous decomposition products formed under fire conditions.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Appropriate breathing apparatus may be required.

### Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

#### Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

#### Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

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### 7. Handling and Storage

#### Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

#### Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials. Segregate from acids and acid forming substances.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephthalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions.

Storage stability:

Storage duration: 36 Months

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### 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

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Sodium Hydroxide	ACGIH, US:	CLV 2 mg/m <sup>3</sup> ;
	OSHA Z1:	PEL 2 mg/m <sup>3</sup> ;
Boric acid (HBO <sub>2</sub> ), potassium salt	ACGIH, US:	STEL value 6 mg/m <sup>3</sup> Inhalable fraction ;
	ACGIH, US:	TWA value 2 mg/m <sup>3</sup> Inhalable fraction ;

### Personal protective equipment

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate.

#### **Hand protection:**

Chemical resistant protective gloves (EN ISO 374-1), chloroprene rubber (CR) - 0.5 mm coating thickness, nitrile rubber (NBR) - 0.4 mm coating thickness, Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1, The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties)., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

#### **Eye protection:**

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

#### **Body protection:**

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

#### **General safety and hygiene measures:**

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

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## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	soap-like	
Odour threshold:	No applicable information available.	
Colour:	amber	
pH value:	13.6 ( 20 °C) (undiluted)	
Melting point:	0 °C	
Freezing point:	not determined	
Boiling range:	not determined	
onset of boiling:	100 °C	(calculated)
Sublimation point:	No applicable information available.	
Flash point:	not applicable The product has not been tested. The statement has been derived from the properties of the individual components.	(ISO 3679)

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Flammability:	not applicable
Lower explosion limit:	not determined
Upper explosion limit:	not applicable
Autoignition:	not determined
Vapour pressure:	( 20 °C) not determined
Density:	1.138 g/cm <sup>3</sup> ( 20 °C)
Relative density:	No applicable information available.
Vapour density:	Lighter than air.
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	( 40 °C) No data available.
Solubility in water:	fully soluble
Miscibility with water:	miscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	No applicable information available.

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:  
not fire-propagating

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

### Conditions to avoid

Avoid direct sunlight.

### Incompatible materials

acid forming substances, Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions., acids

### Hazardous decomposition products

Decomposition products:

Possible decomposition products: When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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### 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### Acute Toxicity/Effects

##### Acute toxicity

Assessment of acute toxicity: Based on available data, the classification criteria are not met.

##### Oral

Type of value: ATE

Value: 5,511 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

##### Inhalation

Type of value: ATE

Value: 1,050 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

##### Dermal

Type of value: ATE

Value: 22,292 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

##### Assessment other acute effects

Assessment of STOT single:

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

##### Irritation / corrosion

Assessment of irritating effects: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

*Information on: Sodium Hydroxide*

*Assessment of irritating effects: Highly corrosive! Damages skin and eyes.*

*Information on: Octenyl succinic anhydride*

*Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.*

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##### Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

*Information on: Octenyl succinic anhydride*

*Assessment of sensitization:*

*Sensitization after skin contact possible.*

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### Aspiration Hazard

No aspiration hazard expected.

### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

#### Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

#### Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect.

#### Teratogenicity

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways.  
Based on available data, the classification criteria are not met.

### **Persistence and degradability**

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

No data available concerning biodegradation and elimination.

### **Bioaccumulative potential**

#### Bioaccumulation potential

No data available.

### **Mobility in soil**

#### Assessment transport between environmental compartments

No data available.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

### **Container disposal:**

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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### 14. Transport Information

#### Land transport

USDOT

Hazard class: 8  
Packing group: III  
ID number: UN 1719  
Hazard label: 8  
Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (contains SODIUM HYDROXIDE, MALEIC ACID ANHYDRIDE)

#### Sea transport

IMDG

Hazard class: 8  
Packing group: III  
ID number: UN 1719  
Hazard label: 8  
Marine pollutant: NO  
Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (contains SODIUM HYDROXIDE, MALEIC ACID ANHYDRIDE)

#### Air transport

IATA/ICAO

Hazard class: 8  
Packing group: III  
ID number: UN 1719  
Hazard label: 8  
Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (contains SODIUM HYDROXIDE, MALEIC ACID ANHYDRIDE)

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### CERCLA RQ

1000 LBS

#### CAS Number

1310-73-2

#### Chemical name

Sodium Hydroxide

#### State regulations

##### State RTK

NJ

PA

##### CAS Number

1310-73-2

1310-73-2

##### Chemical name

Sodium Hydroxide

Sodium Hydroxide

**Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

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**WARNING:** This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**NFPA Hazard codes:**

Health: 3      Fire: 1      Reactivity: 1      Special:

**HMIS III rating**

Health: 3 $\alpha$       Flammability: 1      Physical hazard: 1

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### 16. Other Information

**SDS Prepared by:**

Chemetall (now part of BASF Group) NA Product Regulations  
SDS Prepared on: 2024/01/29

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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