

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date: 09.07.2025

Version No: 2.00 (replaces version 1.00)

Revision: 09.07.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Aculon NanoClear® Primer, Aculon Cleaner 905
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Etch primer, Wash primer
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Aculon Inc.
10110 Sorrento Valley Road
San Diego, CA 92121
USA
Tel.: +1-858-350-9474
Email: coatings@aculon.com
- **1.4 Emergency telephone number:**
CHEMTREC CCN696855
DOMESTIC NORTH AMERICA: +1-800-424-9300
INTERNATIONAL: +1-703-527-3887

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**
EUH210 Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** This product does not contain any substances $\geq 0.1\%$ that have been assessed as PBT.
- **vPvB:** This product does not contain any substances $\geq 0.1\%$ that have been assessed as vPvB.
- **Determination of endocrine-disrupting properties**
This product does not contain substances with endocrine disrupting properties in a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Dangerous components:**

CAS: 1330-43-4	disodium tetraborate, anhydrous	1 - 3%
EC number: 215-540-4	Repr. 1B, H360FD	
Index number: 005-011-00-4	Specific concentration limit: Repr. 1B; H360: C $\geq 4.5\%$	

· **SVHC**

CAS: 1330-43-4	disodium tetraborate, anhydrous
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Take affected persons out of danger area and lay down.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Remove contact lenses, if present and easy to do. Continue rinsing.
- **After swallowing:** Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide
Carbon dioxide
Phosphorus compounds
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Wear protective clothing.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Any unavoidable deposit of dust must be regularly removed.
Prevent formation of aerosols.
- **Information about fire and explosion protection:** Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 1330-43-4 disodium tetraborate, anhydrous

OEL (Ireland)	Long-term value: 2 mg/m ³ Repr 1B
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· **DNELs**

CAS: 1330-43-4 disodium tetraborate, anhydrous

Dermal	DNEL(long/systemic)	316.4 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/local)	17.04 mg/m ³ (Workers (Industrial/Professional))
	DNEL(long/systemic)	6.7 mg/m ³ (Workers (Industrial/Professional))
	DNEL(short/local)	17.04 mg/m ³ (Workers (Industrial/Professional))

· **PNECs**

CAS: 1330-43-4 disodium tetraborate, anhydrous

PNEC(aqua)	2.9 mg/L (freshwater) 2.9 mg/L (marine water) 13.7 mg/L (intermittent release (freshwater))
PNEC(STP)	10 mg/L (sewage treatment plant)
PNEC(soil)	5.7 mg/kg soil dw (soil)

· 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Hand protection**



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

Nitrile rubber, NBR (0.4 mm)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Tightly sealed goggles

· **Body protection:** Protective work clothing

· **Environmental exposure controls** No further relevant information available.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Form:**

Liquid on inert carrier material

· **Colour:**

According to product specification

· **Odour:**

Pleasant

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Not determined.

· **Boiling point or initial boiling point and boiling range**

Not determined.

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not applicable.

· **Upper:**

Not applicable.

· **Flash point:**

Not determined.

· **Auto-ignition temperature:**

Not determined.

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

7

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **Dynamic:**

Not determined.

· **Solubility**

· **water:**

Partly miscible.

· **Partition coefficient n-octanol/water (log value)**

1330-43-4	disodium tetraborate, anhydrous	- 1,53 logPow (22 °C, EU Method A.8)
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· **Vapour pressure at 20 °C:**

43.2 hPa

· **Density and/or relative density**

· **Density:**

Not determined.

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

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- **Relative gas density** Not determined.
- **Particle characteristics** Not applicable.
- **9.2 Other information**
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent content:**
- **Water:** 89.0 %
- **Molecular weight** Not applicable.
- **Oxidising properties** No
- **Evaporation rate** Not determined.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

CAS: 1330-43-4 disodium tetraborate, anhydrous

Oral	LD50	> 2600 mg/kg (Rat) (OECD Guideline 401)
Dermal	LD50	> 2000 mg/kg (rabbit) (FIFRA (40 CFR 163))
Inhalative	LC50 (4h)	> 2.03 mg/L (Rat) (OECD Guideline 403, inhalation:dust) nominal

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· Endocrine disrupting properties

This product does not contain substances with endocrine disrupting properties in a concentration of $\geq 0.1\%$.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 1330-43-4 disodium tetraborate, anhydrous

LC50 (96h) (static)	64 mg/L (Daphnia) (OECD Guideline 203)
	74 mg/L (fish) (P. promelas)
EC10 (72h)	50.7 mg/L (algae)
NOEC (21d)	6.6 mg/L (Daphnia)
NOEC (static)	17.5 mg/L (algae) (OECD Guideline 201, Pseudokirchneriella subcapitata)
	nominal
	Read-across to CAS 10043-35-3

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT:

This product does not contain any substances $\geq 0.1\%$ that have been assessed as PBT.

· vPvB:

This product does not contain any substances $\geq 0.1\%$ that have been assessed as vPvB.

· 12.6 Endocrine disrupting properties

This product does not contain substances with endocrine disrupting properties in a concentration of $\geq 0.1\%$.

· **12.7 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· **Recommendation:** Must be specially treated adhering to official regulations.

· Uncleaned packaging

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number

· **ADR/RID/ADN, IMDG, IATA**

Void

· 14.2 UN proper shipping name

· **ADR/RID/ADN, IMDG, IATA**

Void

· 14.3 Transport hazard class(es)

· **ADR/RID/ADN, IMDG, IATA**

· **Class**

Void

· 14.4 Packing group

· **ADR/RID/ADN, IMDG, IATA**

Void

· 14.5 Environmental hazards:

Not applicable.

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- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

- **National regulations:**

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

CAS: 1330-43-4 | disodium tetraborate, anhydrous

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H360 May damage fertility or the unborn child.

H360FD May damage fertility. May damage the unborn child.

- **Date of previous version:** 09.07.2025

- **Version number of previous version:** 1.00

- **Abbreviations and acronyms:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

UN: United Nations (also UNO: United Nations Organization)

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

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ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Repr. 1B: Reproductive toxicity – Category 1B

· Sources

This Safety Data Sheet is based on a combination of internal technical data, information on raw materials, and generally accessible sources in the field of chemical safety, including publicly available databases such as those of the European Chemicals Agency (ECHA).
European Chemicals Agency, <https://chem.echa.europa.eu>

· * Data compared to the previous version altered.