

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® Metal Repellency Treatment
- **UFI:** ER1X-U9KQ-E20N-8VND
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Coating material
- **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**
Flam. Liq. 3 H226 Flammable liquid and vapour.
Eye Irrit. 2 H319 Causes serious eye irritation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Warning
- **Hazard statements**
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
- **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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.

(Contd. on page 2)

Safety data sheet

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

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Trade name: Aculon® Metal Repellency Treatment

(Contd. of page 1)

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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: 64-17-5 EC number: 200-578-6 Index number: 603-002-00-5	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C $\geq 50\%$	50 - 52%
CAS: 67-56-1 EC number: 200-659-6 Index number: 603-001-00-X	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 ATE: LD50 oral: 100 mg/kg LD50 dermal: 300 mg/kg LC50 (4h) inhalative: 3 mg/L Specific concentration limits: STOT SE 1; H370: C $\geq 10\%$ STOT SE 2; H371: $3\% \leq C < 10\%$	2 - < 3%
CAS: 67-63-0 EC number: 200-661-7 Index number: 603-117-00-0	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2 - < 3%

· **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.

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:** Supply fresh air.

· **After skin contact:** Immediately rinse with water.

· **After eye contact:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical treatment.

· **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.

(Contd. on page 3)

Safety data sheet

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Revision: 09.07.2025

Trade name: Aculon® Metal Repellency Treatment

(Contd. of page 2)

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
- **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.
Keep away from ignition sources.
- **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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Prevent formation of aerosols.
- **Information about fire and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect from heat.
- **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.

(Contd. on page 4)

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

Trade name: Aculon® Metal Repellency Treatment

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

CAS: 64-17-5 ethanol

OEL (Ireland) Short-term value: 1000 ppm

CAS: 67-56-1 methanol

OEL (Ireland) Long-term value: 260 mg/m³, 200 ppm
Skin, IOELVIOELV (EU) Long-term value: 260 mg/m³, 200 ppm
Skin

CAS: 67-63-0 propan-2-ol

OEL (Ireland) Short-term value: 400 ppm
Long-term value: 200 ppm
Skin

· DNELs

CAS: 64-17-5 ethanol

Inhalative	DNEL(long/systemic)	114 mg/m ³ (Consumer) 380 mg/m ³ (Workers (Industrial/Professional))
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CAS: 67-56-1 methanol

Oral	DNEL(long/systemic)	4 mg/kg bw/day (Consumer)
	DNEL(short/systemic)	4 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	4 mg/kg bw/day (Consumer) 20 mg/kg bw/day (Workers (Industrial/Professional))
	DNEL(short/systemic)	4 mg/kg bw/day (Consumer) 20 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/local)	26 mg/m ³ (Consumer) 130 mg/m ³ (Workers (Industrial/Professional))
	DNEL(long/systemic)	26 mg/m ³ (Consumer) 130 mg/m ³ (Workers (Industrial/Professional))
	DNEL(short/local)	26 mg/m ³ (Consumer) 130 mg/m ³ (Workers (Industrial/Professional))
	DNEL(short/systemic)	26 mg/m ³ (Consumer) 130 mg/m ³ (Workers (Industrial/Professional))

CAS: 67-63-0 propan-2-ol

Oral	DNEL(long/systemic)	26 mg/kg bw/day (food)
Dermal	DNEL(long/systemic)	319 mg/kg bw/day (Consumer) 888 mg/kg bw/day (Workers (Industrial/Professional))
	DNEL(long/systemic)	89 mg/m ³ (Consumer) 500 mg/m ³ (Workers (Industrial/Professional))
Inhalative	DNEL(short/local)	178 mg/m ³ (Consumer) 1 mg/m ³ (Workers (Industrial/Professional))

· PNECs

CAS: 64-17-5 ethanol

PNEC(aqua)	0.96 mg/L (freshwater) 0.79 mg/L (marine water)
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(Contd. on page 5)

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

Trade name: Aculon® Metal Repellency Treatment

(Contd. of page 4)

PNEC(STP)	580 mg/L (sewage treatment plant)
PNEC(sediment)	3.6 mg/kg sedi. dw (freshwater) 2.9 mg/kg sedi. dw (marine water)
PNEC(soil)	0.63 mg/kg soil dw (soil)
PNEC(oral)	0.38 kg/kg food (food)

· 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.
 - Immediately remove all soiled and contaminated clothing.
 - Store protective clothing separately.
 - Avoid contact with the eyes and skin.
 - 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.

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**

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** Gauze 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
- **Colour:** Clear
- **Odour:** Alcohol-like
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** -114 °C
- **Boiling point or initial boiling point and boiling range** 78.3 °C (CAS: 64-17-5 ethanol)
- **Flammability** Flammable.

(Contd. on page 6)

Safety data sheet

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

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Version No: 2.00 (replaces version 1.00)

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Trade name: Aculon® Metal Repellency Treatment

(Contd. of page 5)

- **Lower and upper explosion limit**
- **Lower:** 3.3 Vol %
Not applicable.
- **Upper:** 119 Vol %
Not applicable.
- **Flash point:** 54 °C
- **Auto-ignition temperature:** 363 °C (for 100% ethyl alcohol)
- **Decomposition temperature:** Not determined.
- **pH at 20 °C** 5.5 (50%)
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **Dynamic:** Not determined.
- **Solubility**
- **water:** Fully miscible.
- **Partition coefficient n-octanol/water (log value)**

64-17-5	ethanol	- 0,35 log Pow (24 °C, OECD Guideline 107)
67-56-1	methanol	-0,77 log Pow (meas.)
67-63-0	propan-2-ol	0,05 log Pow (25°C)

- **Vapour pressure at 25 °C:** 78.7 hPa (CAS: 64-17-5 ethanol)
- **Density and/or relative density**
- **Density at 20 °C:** 1.04 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Relative gas density** Not determined.
- **Particle characteristics** Not applicable.
- **9.2 Other information**
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Solvent content:**
- **Organic solvents:** 55.6 %
- **Molecular weight** Not applicable.
- **Oxidising properties** No
- **Evaporation rate** Not determined.
- **Information with regard to physical hazard classes**
- **Flammable liquids** Flammable liquid and vapour.

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** Avoid heat, sparks, open flames and other ignition sources.
- **10.5 Incompatible materials:**
Alkaline materials (bases)
Ammonium nitrate
Strong oxidizing agents
Reacts with peroxides and other radical forming substances.
Reacts with acids.

(Contd. on page 7)

Safety data sheet

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Version No: 2.00 (replaces version 1.00)

Revision: 09.07.2025

Trade name: Aculon® Metal Repellency Treatment

(Contd. of page 6)

- **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: 64-17-5 ethanol

Oral	LD50	10470 mg/kg (Rat) (OECD Guideline 401)
Inhalative	LC50 (4h)	124.7 mg/L (Rat) (OECD Guideline 403, inhalation:vapour)

CAS: 67-56-1 methanol

Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50 (4h)	3 mg/L (ATE)

CAS: 67-63-0 propan-2-ol

Oral	LD50	5840 mg/kg (Rat) (OECD Guideline 401)
Dermal	LD50	1640 mg/kg (rabbit) (OECD Guideline 402)
Inhalative	LC50	> 10000 ppmV (Rat) (OECD Guideline 403, inhalation:vapour) 6h

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **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 $\geq 0.1\%$.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

CAS: 64-17-5 ethanol

LC50 (48h) (static)	5012 mg/L (Daphnia) (ASTM E729-80, Ceriodaphnia dubia) nominal
LC50 (96h) (dynamic)	11200 mg/L (fish) (US EPA method E03-05, Pimephales promelas)
EC10 (static)	11.5 mg/L (algae) (OECD Guideline 201, Chlorella vulgaris) 3d nominal
EC50 (72h) (static)	275 mg/L (algae) (OECD Guideline 201, Chlorella vulgaris) 3d nominal

(Contd. on page 8)

Safety data sheet

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

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Version No: 2.00 (replaces version 1.00)

Revision: 09.07.2025

Trade name: Aculon® Metal Repellency Treatment

(Contd. of page 7)

NOEC	9.6 mg/L (Daphnia) (Ceriodaphnia dubia) 10d 250 mg/L (fish) (OECD Guideline 212, Danio rerio) 120h nominal semi - static
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CAS: 67-56-1 methanol

LC50 (96h) (dynamic)	15400 mg/L (fish) (EPA-660/3-75-009, Lepomis macrochirus)
EC50 (96h) (static)	~ 22000 mg/L (algae) (OECD Guideline 201, Pseudokirchneriella subcapitata) 18260 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) semi-static
NOEC (21d)	208 mg/L (Daphnia) (QSAR, Daphnia magna)
NOEC (static)	11850 - 15800 mg/L (fish) (meas., early life stage, Oryzias latipes)
IC50 (3h) (static)	> 1000 mg/L (Bacteria) (OECD Guideline 209, activated sludge)

CAS: 67-63-0 propan-2-ol

LC50 (96h) (dynamic)	9640 mg/L (fish) (OECD Guideline 203, Pimephales promelas)
EC50 (24h) (static)	> 10000 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal
NOEC (static)	1800 mg/L (algae) (Scenedesmus quadricauda) 7d

· 12.2 Persistence and degradability

64-17-5	ethanol	84 % (20 d)
67-56-1	methanol	95 % (20d, standard method)
67-63-0	propan-2-ol	53 % (5d, EU Method C.5)

· 12.3 Bioaccumulative potential

67-56-1	methanol	< 10 BCF (meas., Leuciscus idus, 72h)
67-63-0	propan-2-ol	1,015 L/kg ww (QSAR)

· 12.4 Mobility in soil

67-56-1	methanol	-0,88 - 0 log Koc
67-63-0	propan-2-ol	0.541 log Koc (20° C, pH 7, QSAR)

· 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.

(Contd. on page 9)

Safety data sheet

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Printing date: 09.07.2025

Version No: 2.00 (replaces version 1.00)

Revision: 09.07.2025

Trade name: Aculon® Metal Repellency Treatment

(Contd. of page 8)

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

SECTION 14: Transport information

- **14.1 UN number or ID number** UN1993
- **ADR/RID/ADN, IMDG, IATA**
- **14.2 UN proper shipping name**
- **ADR/RID/ADN** 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL)
- **IMDG** FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL)
- **IATA** FLAMMABLE LIQUID, N.O.S. (ETHANOL, METHANOL)
- **14.3 Transport hazard class(es)**
- **ADR/RID/ADN, IMDG, IATA**
- 
- **Class** 3 Flammable liquids.
- **Label** 3
- **14.4 Packing group**
- **ADR/RID/ADN, IMDG, IATA** III
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Warning: Flammable liquids.
- **Hazard identification number (Kemler code):** 30
- **EMS Number:** F-E, S-E
- **Stowage Category** A
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:**
- **ADR/RID/ADN**
- **Tunnel restriction code** D/E
- **UN "Model Regulation":** UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL), 3, III

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.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 69

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.

(Contd. on page 10)

Safety data sheet

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Revision: 09.07.2025

Trade name: Aculon® Metal Repellency Treatment

(Contd. of page 9)

· 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.

· 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

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H370 Causes damage to organs.

H371 May cause damage to organs.

· Date of previous version: 02.07.2025

· 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

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

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

(Contd. on page 11)

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

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Version No: 2.00 (replaces version 1.00)

Revision: 09.07.2025

Trade name: Aculon® Metal Repellency Treatment

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

(Contd. of page 10)

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.**

IE