SAFETY DATA SHEET

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



1.4 Emergency telephone number

Emergency Telephone Number [15]

CHEMTEL CHEMICAL DOMESTIC NORTH AMERICA: 1-800-255-3924

INTERNATIONAL CALLERS OUTSIDE THE US TERRITORIES AND CANADA: +1-813-248-0585

Revision Date: 3/15/2022

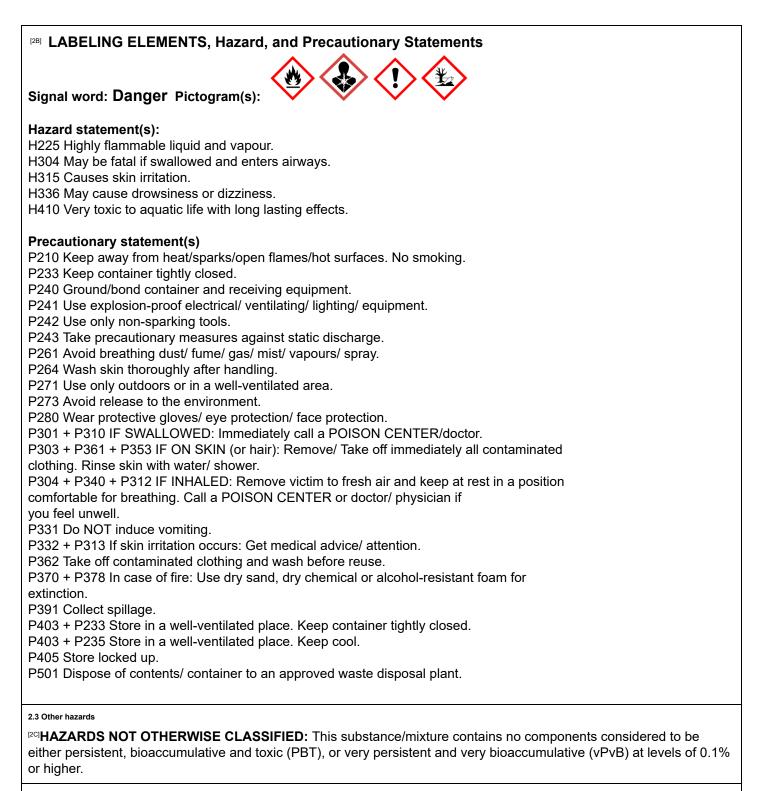
1.1 Product identifiers	Aculon®	,1.2 Relevant identified uses of the substance or	Chemical Mixture
^[1a,b] TRADE	NanoProof® 8.4A	mixture and uses advised against	Hydrocarbon Coating Solution
NAME(s)	Aculon NanoProof® 8.4S	^[16] CHEMICAL FAMILY/ APPLICATION/ RESTRICTIONS	

SECTION 2: Hazards identification

Note: The hazards shown on this SDS are for the bulk chemistry and are provided for application/processing safety information. The final coating once dry is not hazardous per 29 CFR 1910 (OSHA HCS)

^[2A] GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Aspiration hazard (Category 1), H304
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

2.2 Label elements Labeling according Regulation (EC) No 1272/2008



^[20]INGREDIENTS OF UNKNOWN ACUTE TOXICITY >/= 1%: none

SECTION 3: Composition/information on ingredients

Hazardous ingredients according to Regulation (EC) No 1272/2008 and 29 CFR 1910 (OSHA HCS)				
Component	Classification	Concentration		
Methylcyclohexane				
CAS-No. 108-87-2 EC-No.203-624-3 Index-No.601-018-00-1	Flam. Liq. 2; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H225, H304, H315, H336, H410	89 – 96%		
Proprietary Polymer - not an OSHA Hazardous Material				
CAS-No. n/a EC-No. n/a Index-No. n/a	n/a	4 - 11%		

* The specific chemical identity and/or percentage of this material has been withheld as a trade secret.

SECTION 4: First aid measures

4.1 Description of fi	irst aid measures
General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
^[4a] INHALATION	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a
	physician.
[4a]SKIN CONTACT	Wash off with soap and plenty of water. Consult a physician.
^[4a] EYE CONTACT	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
^[4a] INGESTION	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with
	water. Consult a physician.
^[4b] MOST	The most important known symptoms and effects are described in the labelling (see section 2) and/or
IMPORTANT	in section 11
SYMPTOMS &	
EFFECTS	
	no data available
ANY IMMEDIATE	
MEDICAL	
ATTENTION AND	
SPECIAL	
TREATMENT	
NEEDED	

SECTION 5: Firefighting measures

^{(5a) 5.1} Extinguishing Media/SUITABLE/ UNSUITABLE	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
--	--

EXTINGUISHING MEDIA	
^{[5b] 5.2} SPECIFIC	Burning may form Carbon oxides. Use water spray to cool unopened containers.
HAZARDS ARISING	
FROM THE	
SUBSTANCE OR	
MIXTURE(IE	
HAZARDOUS	
COMBUSTION	
PRODUCTS)	
[5c] 5.3	Wear self contained breathing apparatus for fire fighting if necessary.
ADVICE FOR	
FIREFIGHTERS/	
PRECAUTIONS /	
SPECIAL	
PROTECTIVE	
EQUIPMENT	
5.4 FURTHER	Use water spray to cool unopened containers.
INFORMATION	

SECTION 6: Accidental release measures

[6a] 6.1 PERSONAL	Use personal protective equipment. Avoid breathing vapours. Ensure adequate ventilation.
PRECAUTIONS,	Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations.
PPE, EMERGENCY	Vapours can accumulate in low areas.
PROCEDURES	For personal protection see section 8.
6.2 Environmental	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
precautions	
[6a] 6.3 METHODS &	Contain spillage, wipe up any liquid and place in container for disposal according to local
MATERIALS FOR	regulations (see section 13).
CONTAINMENT &	
CLEANING UP	
^{6.4} REFERENCE TO	For disposal see section 13.
OTHER SECTIONS	

SECTION 7: Handling and storage

	Avoid contact with skin and eyes. Avoid inhalation of vapour. Keep away from sources of ignition -
FOR SAFE	No smoking. Take measures to prevent the buildup of electrostatic charge.
HANDLING	For precautions see section 2.2.
^{[7b]7.2} CONDITIONS	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers
FOR SAFE	which are opened must be used immediately before they dry out.
STORAGE,	
INCLUDING ANY	
INCOMPATIBILITIES	
7.3 SPECIFIC END	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
USES	

SECTION 8: Exposure controls/personal protection

^{8.1} CONTROL PARAM	METERS: COM	PONENTS V		CONTROL PARAMETERS
[8a] COMPONENT	CAS#	PEL/ TWA/ STEL	CONTROL PARAMETERS	BASIS (ACGIH, OSHA ETC)
Methylcyclohexane	108-87-2	TWA	400 ppm	USA. ACGIH Threshold Limit Values (TLV) Remarks: Central Nervous system impairment Upper Respiratory Tract irritation Liver damage Kidney damage
		TWA	400 ppm 1600 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	500 ppm 2000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	400 ppm 1,600 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	400 ppm	USA. ACGIH Threshold Limit Values (TLV) Central Nervous System impairment Upper Respiratory Tract irritation Liver damage Kidney damage
(8b) ^{8.2} EXPOSURE CONTROLS/ VENTILATION / ENGINEERING CONTROLS	Handle in acco and at the end		good industrial hygier	ne and safety practice. Wash hands before breaks
PERSONAL PROTEC				
®©RESPIRATORY PROTECTION	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).			
BCJSKIN PROTECTION	Handle with gl and good labo Wash and dry Full contact Material: Nitrile Minimum layel Break through	oves. Dispo ratory practio hands. r tubber r thickness: 0 time: 480 m d:Camatril® (t	se of contaminated gl ces.).4 mm	oves after use in accordance with applicable laws 77442, Size M)

	Minimum layer thickness: 0.11 mm
	Break through time: 35 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)
	data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de,
	test method:
	EN374
	If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
	Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
[8c]CLOTHING/BODY	Wear impervious clothing. The type of protective equipment must be selected according to the
PROTECTION	concentration and amount of the dangerous substance at the specific workplace.
CONTROL OF	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
ENVIRONMENTAL	
EXPOSURE	

SECTION 9: Physical and chemical properties

[9a]Appearance (physical state, color, etc.	Thick Liquid, Clear Colorless	[9j]Upper/lower flammability or explosive limits:	Lower: 1.1% UEL: 6.7%
[9b] Odor	no data available	୍ରାଷ୍ଟ Vapor pressure	110.9 hPa (83.2 mmHg) at 37.7 °C (99.9 °F) 49.3 hPa (37.0 mmHg) at 20.0 °C (68.0 °F)
[9c]Odor threshold	no data available	[9]Vapor density	no data available
Hq[b@]	no data available	[9m]Relative Density	0.77 g/cm3 at 25 °C
[9e]]Melting point/freezing point	-126 °C (-195 °F) - lit	[9n]Solubility (in H ₂ O)	no data available
াগুInitial boiling point and boiling range	101 °C (214 °F) - lit.	[90]Partition coefficient: n-octanol/water	log Pow: 3.44
[9g]Flash point	-4.0 °C (24.8 °F) - closed cup	[9p]Auto-ignition temperature	283.0 °C (541.4 °F)
[9h]Evaporation rate	no data available	الامین Decomposition temperature	no data available
াঞFlammability (solid, gas)	no data available	[9r]Viscosity	no data available
		[9s] Explosive Properties	no data available
		[9t] Oxidizing Properties	no data available

9.2 Other safety information: No data available

SECTION 10: Stability and reactivity

^[10a 10.1] REACTIVITY	no data available
[10b 10.2] CHEMICAL	Stable under recommended storage conditions
STABILITY	

[10c 10.3] POSSIBILITIES	Vapours may form explosive mixture with air.
OF HAZARDOUS	
REACTIONS	
[10d 10.4] CONDITIONS TO	Ignition sources, excess heat, incompatible materials
AVOID	
[10e 10.5] INCOMPATIBLE	Strong oxidizing agents,
MATERIALS	
[10f 10.6] HAZARDOUS	Other decomposition products - no data available
DECOMPOSITION	In the event of fire: see section 5
PRODUCTS	

SECTION 11: Toxicological information

	INHALATION: is not expected if proper ventilation or personal protective equipment is used while working with this product INGESTION: Ingestion is not expected if proper industrial hygiene practices are followed, including no eating, drinking, or smoking while working with chemicals SKIN: is not expected if proper personal protective equipment (gloves and protective clothing) is used while working with this product EYE CONTACT: is not expected if proper personal protective equipment (safety glasses or goggles) is used while working with this product
	INHALATION: May be fatal if swallowed and enters airways.
	INGESTION: May be fatal if swallowed and enters airways.
	SKIN: May result in mild eye irritation
	EYE CONTACT: no data available
	Reproductive toxicity: Rat - male and female - Oral No toxicity to reproduction
	Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.
	Specific target organ toxicity - repeated exposure: no data available Aspiration hazard: May be fatal if swallowed and enters airways.
FROM	Aspiration nazaru. May be latal il swalloweu and enters allways.
SHORT/LONG	
TERM EXPOSURE	
	ACUTE TOXICITY ESTIMATES: none known
MEASURES OF	
	Acute toxicity
	No data available
	Inhalation: No data available
	Dermal: No data available
	No data available
	SKIN CORROSION/IRRITATION
	No data available
	Serious eye damage/eye irritation Eyes - Rabbit
	Result: No eye irritation
	(OECD Test Guideline 405)

	Respiratory or skin sensitization
	No data available
	Germ cell mutagenicity
	Did not show mutagenic effects in animal experiments.
	Chromosome aberration test in vitro
	Chinese hamster lung cells
	Result: negative
	Ames test
	Salmonella typhim
[11e]	No component of this product present at levels greater than or equal to 0.1% is identified as
CARCINOGENICITY	probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
-	
	Repeated dose
	toxicity
	Rat - male and female - Oral - NOAEL : 250 mg/kg
	Rat - male and female - Inhalation - NOAEL : 1.6 mg/l
	RTECS: GV6125000
	prolonged or repeated exposure can cause:, narcosis

SECTION 12: Ecological information		
[12a 12.1] ECOTOXICITY	Toxicity to fish semi-static test LC50 - Oryzias latipes - 2.07 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates semi-static test EC50 - Daphnia magna (Water flea) - 0.326 mg/l - 48 h Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (green algae) - 0.134 mg/l - 72 h	
[12b 12.2]PERSISTENCE AND DEGRADABILITY	This product is not biodegradable	
BIOACCUMULATIVE POTENTIAL	No data available	
[12d 12.4] MOBILITY IN SOIL	No data available	
12.5 RESULTS OF PBT AND vPvB ASSESSMENT	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted	
[12e 12.6] OTHER ADVERSE EFFECTS (OZONE LAYER ETC.)	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.	

SECTION 13: Disposal considerations

^[13]Contact a licensed professional waste disposal service.

Contaminated Packaging Disposal: Contact a licensed professional waste disposal service.

SECTION 14: Transport information

	14.1[a] UN number	14.2[b] UN proper shipping name	14.3[c] Transport hazard class(es)	14.4[d] Packaging group	14.5[e] Environmental hazards
ADR/RID:	UN2296	Methylcyclohexane	3	11	not applicable
IMDG:	UN2296	Methylcyclohexane	3	11	EMS-NO: F-E, S-D Marine Pollutant: yes
IATA:	UN2296	Methylcyclohexane	3	Ш	not applicable
US DOT	UN2296	Methylcyclohexane	3	Ш	not applicable
14.6 Special precautions for user	N/A	·		·	

[14d] ENVIRONMENTAL HAZARDS	Marine Pollutant: yes
[14f] BULK TRANSPORT	IMDG: UN2296, Methylcyclohexane, 3, II EMS-No: F-E, S-D
(MARPOL 73/78/IBC CODE)	
^[14g] SPECIAL PRECAUTIONS	none known

SECTION 15: Regulatory information

EU This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	No data available	
15.2 Chemical Safety Assessment	For this product a chemical safety assessment was not carried out	

TSCA	The components in this mixture are listed on the US inventory.
OSHA	This document has been prepared in accordance with the SDS requirements
	of the OSHA Hazard Communication Standard.
SARA SECTION 302 EXTREMELY	No chemicals in this material are subject to the reporting requirements of
HAZARDOUS SUBSTANCES	SARA Title III, Section 302.
The following components are subject to	This material does not contain any chemical components with known CAS
reporting levels established by SARA	numbers that exceed the threshold (De
Title III, Section 313	Minimis) reporting levels established by SARA Title III, Section 313.
Sara 311/312 Hazards	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
Massachusetts Right To Know	Methylcyclohexane
Components	CAS-No. 108-87-2, Revision Date 1993-04-24
Pennsylvania Right To Know	Methylcyclohexane
Components	CAS-No. 108-87-2, Revision Date 1993-04-24
New Jersey Right To Know Components	Methylcyclohexane
	CAS-No. 108-87-2, Revision Date 1993-04-24
California Prop. 65 Components	This product does not contain any chemicals known to State of California to
	cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Revision Date: 3/15/2022 Updated to include NanoProof 8.4S 3/6/2020 Updated Address Under Section 1 01/25/2019 Updated "Note" under section 2 06/12/2018 Updated Emergency Contact 06/06/2018 Updated Trademarks and Emergency Contact 05/08/17

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute Acute aquatic toxicity

Aquatic Chronic Chronic aquatic toxicity

Asp. Tox. Aspiration hazard

Flam. Liq. Flammable liquids

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Skin Irrit. Skin irritation

INFORMATION CONTAINED IN THIS SAFETY DATA SHEET IS FOR USE BY TECHNICALLY QUALIFIED PERSONNEL AT THEIR DISCRETION AND RISK. ALL STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON TESTS AND DATA WHICH WE BELIEVE TO BE RELIABLE, BUT THE ACCURACY OR COMPLETENESS THEREOF IS NOT GUARANTEED AND NO WARRANT OF ANY KIND IS MADE WITH RESPECT THERETO. SINCE THE COMPANY SHALL HAVE NO CONTROL OF THE USE OF THE PRODUCT DESCRIBED HEREIN, THE COMPANY ASSUMES NO LIABILITY OF LOSS OR DAMAGE INCURRED FROM THE PROPER OR IMPROPER USE OF SUCH PRODUCT.

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