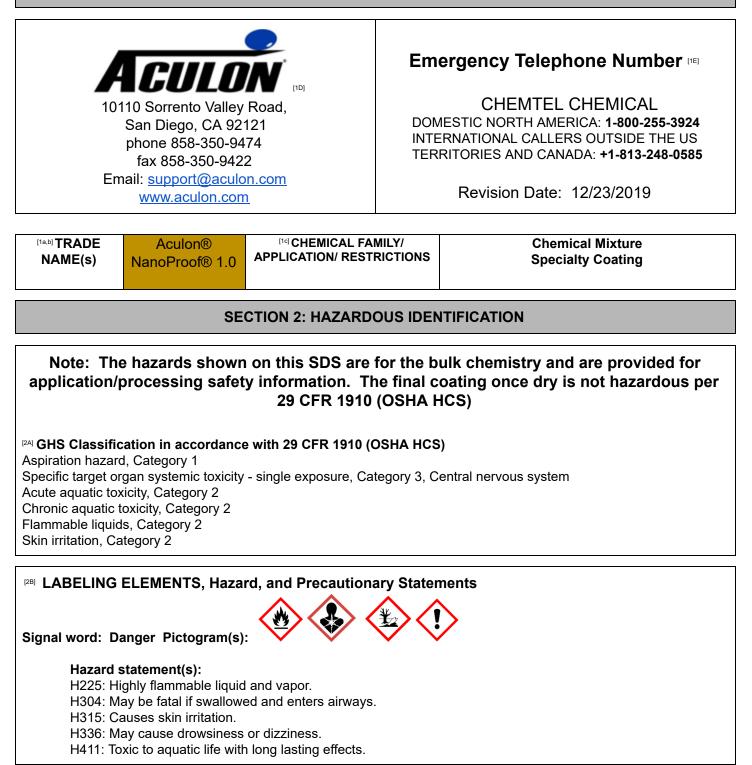
SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION



Precautionary statement(s)

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P243: Take precautionary measures against static discharge.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P331: Do NOT induce vomiting.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P391: Collect spillage.

Storage:

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of contents/ container to an approved waste disposal plant.

^[2C]HAZARDS NOT OTHERWISE CLASSIFIED: none known

^[2D]INGREDIENTS OF UNKNOWN ACUTE TOXICITY >/= 1%:

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENT(S)

[3a,b,d]CHEMICAL NAME/SYNONYMS		EINECS NO.	CONC.*
Proprietary Active Blend*	n/a	n/a	2-4 %
Isoalkanes 7-8	70024-92-9		95 - 98 %

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

SECTION 4: FIRST AID MEASURES

	Consult a physician after significant exposure. If unconscious place in recovery position and seek
	medical advice.
[4a]SKIN CONTACT	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
^[4a] EYE CONTACT	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye
	wide open while rinsing. If eye irritation persists, consult a specialist.
^[4a] INGESTION	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms
	persist, call a physician. Take victim immediately to hospital.
^[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	
SPECIAL TREATMENT	

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. UNSUITABLE : High volume water jet.
⁽⁵⁰⁾ SPECIFIC HAZARDS IE HAZARDOUS COMBUSTION	Do not allow run-off from fire fighting to enter drains or water courses.
PRODUCTS For PRECAUTIONS / SPECIAL PROTECTIVE EQUIPMENT	Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PRECAUTIONS,	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7: HANDLING AND STORAGE

FOR SAFE HANDLING	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
SAFE STORAGE	No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

	PEL/ TWA/ STEL	CONTROL PARAMETERS	BASIS (ACGIH, OSHA ETC)	NOTES
Isoalkanes 7-8	TWA	300 ppm	ACGIH TLV	

[8b] **VENTILATION** / Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

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ENGINEERING CONTROLS	Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.
^[8c] RESPIRATORY PROTECTION	Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
[8c]SKIN PROTECTION	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
	Eye wash bottle with pure water. Tightly fitting safety goggles.
[8c]CLOTHING	Wear appropriate protective clothing to prevent skin exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

[9a]Appearance (physical state, color,	Liquid, Clear Orange	[9]]Upper/lower flammability or	Lower: 1 %(V)
etc.	Liquid, ofear orange	· · · · ·	UEL: no data available
[9b] Odor	mild	[9k]Vapor pressure	114.64 MMHG
			at 37.8 °C (100.0 °F)
[9c]Odor threshold	no data available	[9]Vapor density	2(Air = 1.0)
Hq[be]	not applicable	[9m]Relative Density	0.697, 15.6 °C(60.1 °F)
[9e]]Melting point/freezing point	-89.5 °C (-129.1 °F) - lit.	[9n]Solubility (in H ₂ O)	Negligible
Initial boiling point and boiling	93.3 - 104.4 °C (199.9 -	[90] Partition coefficient:	No data available
range	219.9 °F)	n-octanol/water	
[⊮]]Flash point	-11 °C (12 °F)	[9p]Auto-ignition temperature	420 °C (788 °F)
	Method: Tag closed cup		
■Evaporation rate	1	[9q]Decomposition	no data available
		temperature	
Image: Flammability (solid, gas)	no data available	[9r]Viscosity	no data available

SECTION 10: STABILITY AND REACTIVITY

	no data available
[10b] CHEMICAL	This material is considered stable under normal ambient and anticipated storage and handling
STABILITY	conditions of temperature and pressure.
	none known
HAZARDOUS	
REACTIONS	

	Ignition sources, excess heat, incompatible materials	
AVOID		
[10e] INCOMPATIBLE	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.	
MATERIALS		
101 HAZARDOUS	Other decomposition products - no data available	
DECOMPOSITION	In the event of fire: see section 5	
PRODUCTS		

SECTION 11: TOXICOLOGY INFORMATION **LIKELY ROUTES** OF EXPOSURE 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 When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. [11b] SYMPTOMS INHALATION: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and **RELATED TO** vomiting. Concentrations substantially above the TLV value may cause narcotic effects. May be PHYSICAL. fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity CHEMICAL & TOXIC hazards or to be regarded as if they cause human aspiration toxicity hazard. CHARACTERISTICS INGESTION: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard. SKIN: irritating, Solvents may degrease the skin. EYE CONTACT: Vapors may cause irritation to the eyes, respiratory system and the skin. Reproductive toxicity: no data available [11d] DELAYED / IMMEDIATE Specific target organ toxicity - single exposure: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may EFFECTS. CHRONIC EFFECTS cause narcotic effects. Solvents may degrease the skin. FROM Specific target organ toxicity - repeated exposure: Species: rat, Application Route: Inhalation SHORT/LONG Dose: 0, 385, 1180 ppm, Exposure time: 12 wk, Number of exposures: 6 hr/d, 5 d/wk **TERM EXPOSURE** NOEL: > 1180 ppm, Target Organs: Kidney Aspiration hazard: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard. Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances. Repeated dose toxicity: ACUTE TOXICITY ESTIMATES: none known **MEASURES OF** TOXICITY Acute toxicity

	LD50: > 5.000 mg/kg, Species: rat
	Method: OECD Test Guideline 401
	Information given is based on data obtained from similar substances.
	LC50 Inhalation - rat - 4 h - LC50: > 33.520 mg/l
	Test atmosphere: dust/mist
	Method: OECD Test Guideline 403
	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the
	maximum achievable concentration. Information given is based on data obtained from similar
	substances.
	LD50 Dermal - rat - LD50: > 2.000 mg/kg
	Species: rat
	Method: OECD Test Guideline 402
	Information given is based on data obtained from similar substances.
	information given is based on data obtained nom similar substances.
[11e]	IARC
CARCINOGENICITY	No ingredient of this product present at levels greater than or equal to 0.1% is identified as
	probable, possible or confirmed human carcinogen by IARC.
	NTP
	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known
	or anticipated carcinogen by NTP.
	ACGIH
	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a
	carcinogen or potential carcinogen by ACGIH.

SECTION 12: ECOLOGICAL INFORMATION

The ecological information and warnings are driven by the solvent. See below for the relevant data for the Isoalkanes 7-8 . The other components either have no ecotoxicological effects or no data exists.
Toxicity to fish LC50 - LC50: 5.4 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
Information given is based on data obtained from similar substances.
Toxicity to daphnia and other aquatic invertebrates: EL50: 143 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202
Toxicity to algae EC50 - EL50: 29.0 mg/l
Exposure time: 72 h
Species: Raphidocellus subcapitata (algae)
Growth inhibition Method: OECD Test Guideline 201
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.
Result: Not readily biodegradable. 22 %This material is not expected to be readily biodegradable.

[12c]BIOACCUMULATIV	No data available
E POTENTIAL	
^[12d] MOBILITY IN SOIL	No data available
^[12e] OTHER ADVERSE	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate
EFFECTS (OZONE	ponds, waterways or ditches with chemical or used container. Send to a licensed waste
LAYER ETC.)	management company.
· · · · ·	

SECTION 13: DISPOSAL CONSIDERATIONS

⁽¹³⁾Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated Packaging Disposal: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: TRANSPORTATION INFORMATION

^[14a] UN/NA	^[14b] UN/NA PROPER SHIPPING NAME	[14ca] TRANSPORT HAZARD CLASS	^[14d] PACKING GROUP
UN 1993	Flammable Liquid, n.o.s. (hydrocarbon)	3	II

US DOT/IATA	UN1993, Flammable Liquid, n.o.s. (hydrocarbons), 3, II
	Marine Pollutant:UN1993, Flammable Liquid, n.o.s. (hydrocarbons), 3, II, MARINE
HAZARDS	POLLUTANT, (ISOPENTANE)
^[14f] BULK TRANSPORT	IMDG:UN1993, Flammable Liquid, n.o.s. (hydrocarbons), 3, II EMS-No: F-E, S-D
(MARPOL 73/78/IBC CODE)	
^[14g] SPECIAL PRECAUTIONS	none known

SECTION 15: REGULATORY INFORMATION

US

TSCA	On the inventory, or in compliance with the inventory
OSHA	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard.
	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
levels established by SARA Title III, Section 313	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Sara 311/312 Hazards	Fire Hazard, Acute Health Hazard,
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right To Know	No components are subject to the Pennsylvania Right to Know Act.
Components	
New Jersey Right To Know Components	No components are subject to the New Jersey Right to Know Act.
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: see the top of each page of this SDS

HMIS Rating	NFPA Rating
Health hazard: 2	Health hazard: 2
Chronic Health Hazard: *	
Flammability: 3	Fire Hazard: 3
Physical Hazard 0	Reactivity Hazard: 0

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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