

SAFETY DATA SHEET

I. PRODUCT AND COMPANY INFORMATION



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Revision Date: 06/12/2018

^[1a,b] TRADE NAME(s)	NanoProof® 2.0	^[1c] CHEMICAL FAMILY/ APPLICATION/ RESTRICTIONS	Chemical Mixture
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II. HAZARDOUS IDENTIFICATION

^[2A] **GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Aspiration hazard, Category 1
 Flammable liquids, Category 3
 Skin irritation, Category 3

^[2B] **LABELING ELEMENTS, Hazard, and Precautionary Statements**

Signal word: **Danger** Pictogram(s):



Hazard statement(s):

H226: Flammable liquid and vapor.
 H304: May be fatal if swallowed and enters airways.
 H316: Causes mild skin irritation.

Precautionary statement(s):

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces.- No smoking.
 P243: Take precautionary measures against static discharge.
 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.

Storage:

P403 + P235: Store in a well-ventilated place. Keep cool.
 P405: Store locked up.

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%:****III. COMPOSITION / INFORMATION ON INGREDIENT(S)**

^[3a,b,d] CHEMICAL NAME/SYNONYMS	^[3C] CAS NUMBER	EINECS NO.	CONC.*
Alkanes, C9-11-iso synonyms: Isoparaffins, Isoalkanes, Aliphatic hydrocarbon	68551-16-6	n/a	90 - 99%
Proprietary Active Blend*	n/a	n/a	1 - 10%

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

IV. FIRST AID MEASURES

^[4a] INHALATION	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
^[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. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
^[4b] MOST IMPORTANT SYMPTOMS & EFFECTS	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
^[4c] INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	no data available

V. FIREFIGHTING MEASURES

^[5a] SUITABLE/ UNSUITABLE EXTINGUISHING MEDIA	Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical.
^[5b] SPECIFIC HAZARDS IE HAZARDOUS COMBUSTION PRODUCTS	Do not allow run-off from fire fighting to enter drains or water courses.
^[5c] PRECAUTIONS / SPECIAL PROTECTIVE EQUIPMENT	Wear self contained breathing apparatus for fire fighting if necessary.

VI. ACCIDENTAL RELEASE MEASURES

^[6a] PERSON PRECAUTIONS, PPE, EMERGENCY PROCEDURES	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
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<p>^[6a] METHODS & MATERIALS OF CONTAINMENT & CLEANING</p>	<p>Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Prevent material from entering storm sewers or waterways.</p>
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VII. HANDLING AND STORAGE

<p>^[7a] PRECAUTIONS FOR SAFE HANDLING</p>	<p>Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Flashback possible over considerable distance. Container explosion may occur under fire conditions. Use explosion proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.</p>
<p>^[7b] CONDITIONS FOR SAFE STORAGE</p>	<p>Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep from contact with oxidizing materials. Store away from incompatible substances. Flammables-area. Do not store near perchlorates, peroxides, chromic acid or nitric acid.</p>

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

<p>^[8a] COMPONENT</p>	<p>PEL/ TWA/ STEL</p>	<p>CONTROL PARAMETERS</p>	<p>BASIS (ACGIH, OSHA ETC)</p>	<p>NOTES</p>

<p>^[8b] VENTILATION / ENGINEERING CONTROLS</p>	<p>Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.</p>
<p>^[8c] RESPIRATORY PROTECTION</p>	<p>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).</p>
<p>^[8c] SKIN PROTECTION</p>	<p>Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.</p>
<p>^[8c] EYE PROTECTION</p>	<p>Wear appropriate protective eyeglasses or chemical safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</p>
<p>^[8c] CLOTHING</p>	<p>Wear appropriate protective clothing to prevent skin exposure.</p>

IX. PHYSICAL AND CHEMICAL PROPERTIES

<p>^[9a] Appearance (physical state, color, etc.</p>	<p>Liquid, Clear Colorless</p>	<p>^[9j] Upper/lower flammability or explosive limits:</p>	<p>no data available</p>
<p>^[9b] Odor</p>	<p>Mild, Hydrocarbon</p>	<p>^[9k] Vapor pressure</p>	<p>6.18 MMHG at 38 °C (100 °F)</p>
<p>^[9c] Odor threshold</p>	<p>no data available</p>	<p>^[9l] Vapor density</p>	<p>no data available</p>
<p>^[9d] pH</p>	<p>no data available</p>	<p>^[9m] Relative Density</p>	<p>0.75, 15.6 °C(60.1 °F)</p>

^[9e] Melting point/freezing point	no data available	^[9n] Solubility (in H₂O)	negligible
^[9b] Initial boiling point and boiling range	148.8 - 176.7 °C (299.8 - 350.1 °F)	^[9o] Partition coefficient: n-octanol/water	No data available
^[9g] Flash point	39.4 °C (102.9 °F)	^[9p] Auto-ignition temperature	336 °C (637 °F)
^[9h] Evaporation rate	1	^[9q] Decomposition temperature	no data available
^[9i] Flammability (solid, gas)	no data available	^[9r] Viscosity	no data available

X. STABILITY AND REACTIVITY

^[10a] REACTIVITY	no data available
^[10b] CHEMICAL STABILITY	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
^[10c] POSSIBILITIES OF HAZARDOUS REACTIONS	
^[10d] CONDITIONS TO AVOID	Heat, flames and sparks.
^[10e] INCOMPATIBLE MATERIALS	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
^[10f] HAZARDOUS DECOMPOSITION PRODUCTS	No decomposition if stored and applied as directed.

XI. TOXICOLOGY INFORMATION

^[11a] LIKELY ROUTES OF EXPOSURE	<p>INHALATION: is not expected if proper ventilation or personal protective equipment is used while working with this product</p> <p>INGESTION: Ingestion is not expected if proper industrial hygiene practices are followed, including no eating, drinking, or smoking while working with chemicals</p> <p>SKIN: is not expected if proper personal protective equipment (gloves and protective clothing) is used while working with this product</p> <p>EYE CONTACT: is not expected if proper personal protective equipment (safety glasses or goggles) is used while working with this product</p>
^[11b] SYMPTOMS RELATED TO PHYSICAL, CHEMICAL & TOXIC CHARACTERISTICS	<p>INHALATION: Vapors may cause irritation to the eyes, respiratory system and the skin.</p> <p>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.</p> <p>SKIN: Skin corrosion/irritation: May cause skin irritation and/or dermatitis. Solvents may degrease the skin.</p> <p>EYE CONTACT: Vapors may cause irritation to the eyes, respiratory system and the skin.</p> <p>Respiratory or skin sensitisation: Vapors may cause irritation to the eyes, respiratory system and the skin.</p>
^[11d] DELAYED / IMMEDIATE EFFECTS, CHRONIC EFFECTS FROM SHORT/LONG TERM EXPOSURE	<p>Reproductive toxicity: Species: rat Application Route: Inhalation Dose: 0, 291, 817 ppm Number of exposures: 6 h/d Test period: GD 6-15 NOAEL Teratogenicity: > 817 ppm NOAEL Maternal: > 817 ppm</p> <p>Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.</p> <p>Specific target organ toxicity - repeated exposure: Species: rat Application Route: Inhalation Dose: 0, 314, 922 ppm Exposure time: 12 wk Number of exposures: 6 h/d, 5 d/wk NOEL: > 922 ppm</p> <p>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.</p>
^[11D] NUMERICAL MEASURES OF TOXICITY	<p>ACUTE TOXICITY ESTIMATES:</p> <p>Alkanes, C9-11-iso</p> <p>LD50 Oral - rat - 34,600 mg/kg</p>

	LC50 Inhalation - rat -4 h - dust/mist: > 12..4mg/l LD50 Dermal - rabbit - 15,400 mg/kg
^[11e] CARCINOGENICITY	IARC 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%

XII. ECOLOGICAL INFORMATION

^[12a] ECOTOXICITY	The ecological information and warnings are driven by the solvent. See below for the relevant data for the Alkanes, C9-11-iso . The other components either have no ecotoxicological effects or no data exists. Toxicity to fish - LC50: 1,000 mg/l Exposure time: 96 HR Species: Oncorhynchus mykiss (rainbow trout) Toxicity to daphnia and other aquatic invertebrates : LC50: 1,000 mg/l Exposure time: 48 HR Species: Daphnia magna (Water flea)
^[12b] PERSISTENCE AND DEGRADABILITY	No data available
^[12c] BIOACCUMULATIVE POTENTIAL	No data available
^[12d] MOBILITY IN SOIL	No data available
^[12e] OTHER ADVERSE EFFECTS (OZONE LAYER ETC.)	No data available

XIII. DISPOSAL CONSIDERATIONS

^[13]Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging: Do not dispose of waste into sewer. 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.

XIV. TRANSPORTATION INFORMATION

^[14a] UN/NA	^[14b] UN/NA PROPER SHIPPING NAME	^[14ca] TRANSPORT HAZARD CLASS	^[14d] PACKING GROUP
UN3295	HYDROCARBONS, LIQUID, N.O.S.	3	III

US DOT/IATA	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III
^[14d] ENVIRONMENTAL HAZARDS	Marine Pollutant: no
^[14f] BULK TRANSPORT (MARPOL 73/78/IBC CODE)	IMDG : UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (39.4 °C)
^[14g] SPECIAL PRECAUTIONS	none known

XV. REGULATORY INFORMATION**US**

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 HAZARDOUS SUBSTANCES	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
The following components are subject to reporting 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
Massachusetts Right To Know Components	No data available
Pennsylvania Right To Know Components	1-Propene, 2-methyl-, homopolymer CAS-No. 9003-27-4
New Jersey Right To Know Components	1-Propene, 2-methyl-, homopolymer CAS-No. 9003-27-4
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.

XVI. OTHER INFORMATION

Revision Date: 06/12/2018

06/06/2018 Updated Emergency Contact and Trademark

12/08/15 Original Issue.

01/30/2017 update

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