SAFETY DATA SHEET

CHEMSERVICE

1. Identification

Product identifier	New Jersey Aliphatics Fractionation Check Mixture		
Other means of identification			
Item	M-CSNJ1J15		
Recommended use	For Laboratory Use Only		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Chem Service, Inc.		
Address	660 Tower Lane		
	West Chester, PA 19380		
Telephone	United States Toll Free	800-452-9994	
relephone	Direct	610-692-3026	
Website	www.chemservice.com		
E-mail	info@chemservice.com		
Emergency phone number	Chemtrec US	800-424-9300	
	Chemtrec outside US	+1 703-527-3887	,
2. Hazard(s) identification			
Physical hazards	Flammable liquids		Category 2
Health hazards	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irri	itation	Category 2A
	Reproductive toxicity		Category 2
	Specific target organ toxicity	, single exposure	Category 3 narcotic effects
	Specific target organ toxicity exposure	v, repeated	Category 1
	Aspiration hazard		Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard		Category 2
	Hazardous to the aquatic er long-term hazard	nvironment,	Category 2
OSHA defined hazards	Not classified.		

Label elements



Danger

Signal word Hazard statement

Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
n-Hexane		110-54-3	99.28
n-Decane		124-18-5	0.04
n-Docosane		629-97-0	0.04
n-Dodecane		112-40-3	0.04
n-Dotriacontane		544-85-4	0.04
n-Eicosane		112-95-8	0.04
n-Heneicosane		629-94-7	0.04
n-Hexacosane		630-01-3	0.04
n-Hexadecane		544-76-3	0.04
n-Hexatriacontane		630-06-8	0.04
n-Nonane		111-84-2	0.04
n-Octacosane		630-02-4	0.04
n-Octadecane		593-45-3	0.04
n-Octatriacontane		7194-85-6	0.04
n-Tetracontane		4181-95-7	0.04
n-Tetracosane		646-31-1	0.04
n-Tetradecane		629-59-4	0.04
n-Tetratriacontane		14167-59-0	0.04
n-Triacontane		638-68-6	0.04

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.
6. Accidental release meas	sures
Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate a ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.		
	For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".		
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).		
8. Exposure controls/personal protection			

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components		Туре		Va	llue	
n-Hexane (CAS 110-54-3)		PEL		18	00 mg/m3	
				50	0 ppm	
US. ACGIH Threshold Lim	nit Values					
Components		Туре		Va	llue	
n-Hexane (CAS 110-54-3)		TWA		50	ppm	
n-Nonane (CAS 111-84-2)		TWA		20	0 ppm	
US. NIOSH: Pocket Guide	to Chemical	Hazards				
Components		Туре		Va	llue	
n-Hexane (CAS 110-54-3)		TWA		18	0 mg/m3	
				50	ppm	
n-Nonane (CAS 111-84-2)		TWA		10	50 mg/m3	
, ,						
				20	0 ppm	
logical limit values				20	0 ppm	
logical limit values ACGIH Biological Exposu	re Indices			20	0 ppm	
•	re Indices Value		Determinant	20 Specimen	0 ppm Sampling Time	
ACGIH Biological Exposu	Value		Determinant 2,5-Hexanedio n, without hydrolysis			
ACGIH Biological Exposu Components	Value 0.4 mg/l	burce docu	2,5-Hexanedio n, without hydrolysis	Specimen	Sampling Time	
ACGIH Biological Exposu Components n-Hexane (CAS 110-54-3)	Value 0.4 mg/l	burce docu	2,5-Hexanedio n, without hydrolysis	Specimen	Sampling Time	
ACGIH Biological Exposu Components n-Hexane (CAS 110-54-3) * - For sampling details, ple	Value 0.4 mg/l ase see the sc		2,5-Hexanedio n, without hydrolysis	Specimen	Sampling Time	
ACGIH Biological Exposu Components n-Hexane (CAS 110-54-3) * - For sampling details, ple posure guidelines	Value 0.4 mg/l ase see the so n designation		2,5-Hexanedio n, without hydrolysis ment.	Specimen	Sampling Time	
ACGIH Biological Exposu Components n-Hexane (CAS 110-54-3) * - For sampling details, ple oosure guidelines US - California OELs: Skir	Value 0.4 mg/l ase see the so n designation 1-3)		2,5-Hexanedio n, without hydrolysis ment. Can be	Specimen Urine	Sampling Time	

Material name: New Jersey Aliphatics Fractionation Check Mixture M-CSNJ1J15 Version #: 01 Issue date: 05-19-2018

Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-137.74 °F (-94.3 °C) estimated
Initial boiling point and boiling range	155.66 °F (68.7 °C) estimated
Flash point	-7.0 °F (-21.7 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.1 % estimated
Flammability limit - upper (%)	7.5 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	201.3 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	437 °F (225 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.74642 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated

Oxidizing properties	Not oxidizing.
Specific gravity	0.75 estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters a	airways.
Components	Species	Test Results
n-Decane (CAS 124-18-5)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
n-Dodecane (CAS 112-40-3	3)	
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
n-Eicosane (CAS 112-95-8))	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
n-Hexadecane (CAS 544-76	6-3)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
n-Hexane (CAS 110-54-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 4 Hours
n-Nonane (CAS 111-84-2)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours

Components	Species	Test Results
Inhalation		
Vapor		
LC50	Rat	17 mg/l, 4 Hours
n-Octadecane (CAS 593-45-3)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
n-Tetradecane (CAS 629-59-4)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
* Estimates for product may b	be based on additional component data	not shown.
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause	skin sensitization.
Germ cell mutagenicity	No data available to indicate product mutagenic or genotoxic.	or any components present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcinogenicity t	o humans.
IARC Monographs. Overall Not listed.	Evaluation of Carcinogenicity	
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-105	50)
Not regulated.		
	ogram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	Suspected of damaging fertility or the	
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness	
Specific target organ toxicity - repeated exposure	Causes damage to organs through pr	olonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters	airways.
Chronic effects	Causes damage to organs through pr harmful.	olonged or repeated exposure. Prolonged inhalation may be
12. Ecological information	n	
-	Taxia ta amustia life with lange lasting a	<i>K</i> + -

Ecotoxicity	/

Toxic to aquatic life with long lasting effects.

			Toxic to aquatic me with long lasting cheets.		
	Components		Species	Test Results	
	n-Decane (CAS 124-18	8-5)			
	Aquatic				
	Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	> 500 mg/l, 96 hours	
	n-Docosane (CAS 629	-97-0)			
	Aquatic				
	Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	> 500 mg/l, 96 hours	
	n-Hexane (CAS 110-54	4-3)			
	Aquatic				
	Fish	LC50	Fathead minnow (Pimephales promela	as) 2.101 - 2.981 mg/l, 96 hours	

* Estimates for product may be based on additional component data not shown.

Persistence and degradability

Bioaccumulative potential

Partition coefficient n	-octanol / water (log Kow)	
n-Decane		5.01
n-Hexadecane		8.25
n-Hexane		3.9
n-Nonane		5.46
n-Tetradecane		7.2
Mobility in soil	No data available.	

Other adverse effects

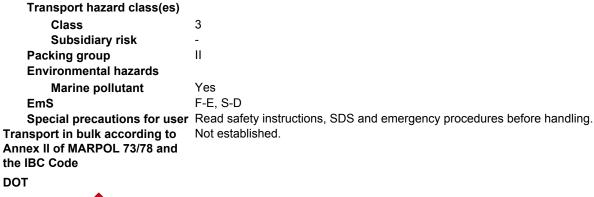
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DO.	r.	
	UN number	UN1208
	UN proper shipping name	Hexanes, solution (n-Hexane RQ = 5036 LBS), MARINE POLLUTANT (n-Nonane)
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Label(s)	3
	Packing group	II
	Environmental hazards	
	Marine pollutant	Yes
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Special provisions	IB2, T4, TP1
	Packaging exceptions	150
	Packaging non bulk	202
	Packaging bulk	242
IAT	Α	
	UN number	UN1208
	UN proper shipping name	Hexanes solution (n-Hexane)
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Packing group	11
	Environmental hazards	Yes
	ERG Code	3H
	• •	Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo	Allowed with restrictions.
	aircraft	
	Cargo aircraft only	Allowed with restrictions.
IMD	-	101/000
	UN number	
	UN proper shipping name	HEXANES SOLUTION (n-Hexane), MARINE POLLUTANT





Marine pollutant



General information

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA Section 12(b) Expo	rt Notification (40 CFR 707, Subpt. D)		
n-Nonane (CAS 111-8 CERCLA Hazardous Subs	4-2) 1.0 % One-Time Export Notification only. stance List (40 CFR 302.4)		
n-Hexane (CAS 110-54 n-Nonane (CAS 111-84 SARA 304 Emergency rel	4-2) Listed.		
Not regulated. OSHA Specifically Regula Not regulated.	ated Substances (29 CFR 1910.1001-1050)		

Superfund Amendments and Re	authorization Act of 198	6 (SARA)			
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	5			
SARA 302 Extremely hazard	dous substance				
Not listed.					
SARA 311/312 Hazardous chemical	No				
SARA 313 (TRI reporting)					
Chemical name		CAS number	% by wt		
n-Hexane		110-54-3	99.28		
Other federal regulations					
Clean Air Act (CAA) Sectior	Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List				
n-Hexane (CAS 110-54-3	3)				
Clean Air Act (CAA) Sectior	n 112(r) Accidental Relea	se Prevention (40 CFR	68.130)		
Not regulated.					
Safe Drinking Water Act (SDWA)	Not regulated.				
US state regulations			ement Act of 1986 (Proposition 65): This material sted as carcinogens or reproductive toxins.		
US California Candida	to Chomicale List Safar	Consumer Products Pa	aulations (Cal. Codo Pogs. tit. 22, 69502.3		

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

n-Hexane (CAS 110-54-3)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-19-2018
Version #	01
NFPA ratings	Health: 2 Flammability: 3 Instability: 0

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.

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