

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

1 Identification

- **Product identifier**
- **Trade name:** C-938
- **Other means of identification**
- **Application of the substance / the mixture** For Laboratory Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
NSI Lab Solutions
7212 ACC Blvd.,
Raleigh, NC 27617
USA
- **Information department:** Product safety department
- **Emergency telephone number:** During normal opening times: +1 (919) 789-3000

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable liquids 2

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 2

H351 Suspected of causing cancer.

Reproductive toxicity 2

H361 Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (repeated exposure) 2

H373 May cause damage to the nervous system through prolonged or repeated exposure.

Aspiration hazard 1

H304 May be fatal if swallowed and enters airways.



GHS07

Skin irritation 2

H315 Causes skin irritation.

Sensitization - skin 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity (single exposure) 3

H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictograms



Signal word Danger

Hazard-determining components of labeling:

n-hexane
 Myrcene
 p-cymene
 beta-Caryophyllene
 geranyl acetate
 Nerol
 (1S)-(+)-3-Carene
 (-)-alpha-Bisabolol

Hazard statements

Highly flammable liquid and vapor.
 Causes skin irritation.
 May cause an allergic skin reaction.
 Suspected of causing cancer.
 Suspected of damaging fertility or the unborn child.
 May cause drowsiness or dizziness.
 May cause damage to the nervous system through prolonged or repeated exposure.
 May be fatal if swallowed and enters airways.

Precautionary statements

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Ground / bond container and receiving equipment.
 Use explosion-proof [electrical/ventilating/lighting] equipment.
 Use non-sparking tools.
 Take action to prevent static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 If swallowed: Immediately call a poison center/doctor.
 Specific treatment (see on this label).
 Do NOT induce vomiting.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 IF exposed or concerned: Get medical advice/attention.
 Call a poison center/doctor if you feel unwell.
 Get medical advice/attention if you feel unwell.
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 In case of fire: Use CO₂, powder or water spray to extinguish.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Information pertaining to particular dangers for man and environment:**
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Classification according to (d)(1)(ii) of § 1910.1200**
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.
- **Hazards not otherwise classified**
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

110-54-3	n-hexane	80–100%
78-70-6	Linalool	≥0.1–<1%
105-87-3	geranyl acetate	≥0.1–<1%
106-25-2	Nerol	≥0.1–<1%
123-35-3	Myrcene	0.1–1%
498-15-7	(1S)-(+)-3-Carene	≥0.1–<1%
23089-26-1	(-)-alpha-Bisabolol	≥0.1–<1%

· **Non-hazardous components**

76-22-2	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	0.1–1%
77-53-2	Cedrol	0.1–1%
79-92-5	camphene	0.1–1%
87-44-5	beta-Caryophyllene	0.1–1%
89-78-1	menthol	0.1–1%
89-79-2	isopulegol	0.1–1%
99-83-2	alpha-Phellandrene	0.1–1%
99-87-6	p-cymene	0.1–1%
124-76-5	Isoborneol	0.1–1%
470-82-6	eucalyptol	0.1–1%
502-61-4	Farnesene	0.1–1%

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1139-30-6	Caryophyllene oxide	0.1–1%
3790-78-1	cis-Nerolidol	0.1–1%
4630-07-3	Valencene	0.1–1%
13877-91-3	3,7-Dimethyl-1,3,6-octatriene	0.1–1%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water.

· After swallowing: If symptoms persist consult doctor.

· Most important symptoms and effects, both acute and delayed No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.

· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

* 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· Protective Action Criteria for Chemicals

· PAC-1:

110-54-3	n-hexane	400 ppm
99-87-6	p-cymene	120 mg/m ³

· PAC-2:

110-54-3	n-hexane	2900 ppm
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99-87-6	p-cymene	1,300 mg/m ³
· PAC-3:		
110-54-3	n-hexane	8600 ppm
99-87-6	p-cymene	1,900 mg/m ³

· 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.

7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities**· Storage:****· Requirements to be met by storerooms and receptacles:** Store in a cool location.**· Information about storage in one common storage facility:** Not required.**· Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

* 8 Exposure controls/personal protection

· Control parameters**· Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

110-54-3 n-hexanePEL Long-term value: 1800 mg/m³, 500 ppmREL Long-term value: 180 mg/m³, 50 ppmTLV Long-term value: 176 mg/m³, 50 ppm

Skin; BEI

· Ingredients with biological limit values:**110-54-3 n-hexane**

BEI 0.5 mg/L

Medium: urine

Time: end of shift

Parameter: 2,5-Hexanedione without hydrolysis

· Additional information: The lists that were valid during the creation were used as basis.

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- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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 protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Liquid
- **Color:** According to product specification
- **Odor:** Characteristic
- **Odor threshold:** Not determined.
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 69 °C (156.2 °F)
- **Flammability:** Highly flammable.
- **Explosion limits:**
- **Lower:** 1.2 Vol %
- **Upper:** 7.4 Vol %
- **Flash point:** -26 °C (-14.8 °F)
- **Auto igniting:** 240 °C (464 °F)

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· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	160 hPa (120 mm Hg)
· Vapor pressure at 50 °C (122 °F):	540 hPa (405 mm Hg)
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Particle characteristics	Not applicable.
· Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Solvent content:	
· Organic solvents:	95.0 %
· VOC content:	95.00 %
	950.0 g/l / 7.93 lb/gal
· Solids content:	1.0 %
· Change in condition	
· Evaporation rate	Not determined.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

*11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
78-70-6 Linalool		
Oral	LD50	2,790 mg/kg (rat)
Dermal	LD50	5,610 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.

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- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
123-35-3	Myrcene	2B
· NTP (National Toxicology Program)		
None of the ingredients is listed.		
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		
· Alternative sources for toxicological information No non-standard sources for toxicological information where used.		

*12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN1993

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· UN proper shipping name · DOT · IMDG · IATA	Flammable liquids, n.o.s. (Hexanes) FLAMMABLE LIQUID, N.O.S. (HEXANES, CYMENES), MARINE POLLUTANT Flammable liquid, n.o.s. (HEXANES)
· Transport hazard class(es) · DOT 	
· Class · Label	3 Flammable liquids 3
· IMDG  	
· Class · Label	3 Flammable liquids 3
· IATA 	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	Product contains environmentally hazardous substances: n-hexane Symbol (fish and tree)
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number:	Warning: Flammable liquids 33 F-E, <u>S</u> -E

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· Stowage Category	<i>B</i>
· UN "Model Regulation":	<i>UN 1993 FLAMMABLE LIQUID, N.O.S. (HEXANES), 3, II, ENVIRONMENTALLY HAZARDOUS</i>

*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **Sara**

· Section 355 (extremely hazardous substances):
<i>None of the ingredients is listed.</i>

· Section 313 (Specific toxic chemical listings):
<i>110-54-3 n-hexane</i>

· TSCA (Toxic Substances Control Act):		
110-54-3	<i>n-hexane</i>	ACTIVE
76-22-2	<i>1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one</i>	ACTIVE
77-53-2	<i>Cedrol</i>	ACTIVE
78-70-6	<i>Linalool</i>	ACTIVE
79-92-5	<i>camphene</i>	ACTIVE
87-44-5	<i>beta-Caryophyllene</i>	ACTIVE
89-78-1	<i>menthol</i>	ACTIVE
89-79-2	<i>isopulegol</i>	ACTIVE
99-83-2	<i>alpha-Phellandrene</i>	ACTIVE
99-87-6	<i>p-cymene</i>	ACTIVE
105-87-3	<i>geranyl acetate</i>	ACTIVE
106-25-2	<i>Nerol</i>	ACTIVE
123-35-3	<i>Myrcene</i>	ACTIVE
124-76-5	<i>Isoborneol</i>	ACTIVE
470-82-6	<i>eucalyptol</i>	ACTIVE
502-61-4	<i>Farnesene</i>	ACTIVE
1139-30-6	<i>Caryophyllene oxide</i>	ACTIVE
4630-07-3	<i>Valencene</i>	ACTIVE
13877-91-3	<i>3,7-Dimethyl-1,3,6-octatriene</i>	ACTIVE

· Hazardous Air Pollutants
<i>110-54-3 n-hexane</i>

· Proposition 65

· Chemicals known to cause cancer:
<i>123-35-3 Myrcene</i>

· Chemicals known to cause reproductive toxicity for females:
<i>None of the ingredients is listed.</i>

· Chemicals known to cause reproductive toxicity for males:
<i>110-54-3 n-hexane</i>

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· Chemicals known to cause developmental toxicity:		
None of the ingredients is listed.		
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
110-54-3	n-hexane	II
· TLV (Threshold Limit Value)		
76-22-2	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).· **Hazard pictograms**

GHS02

GHS07

GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

n-hexane

Myrcene

p-cymene

beta-Caryophyllene

geranyl acetate

Nerol

(1S)-(+)-3-Carene

(-)-alpha-Bisabolol

· **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to the nervous system through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground / bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take action to prevent static discharge.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

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*Do NOT induce vomiting.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**If inhaled: Remove person to fresh air and keep comfortable for breathing.**If exposed or concerned: Get medical advice/attention.**Call a poison center/doctor if you feel unwell.**Get medical advice/attention if you feel unwell.**Take off contaminated clothing and wash it before reuse.**If skin irritation or rash occurs: Get medical advice/attention.**In case of fire: Use CO₂, powder or water spray to extinguish.**Store in a well-ventilated place. Keep container tightly closed.**Store in a well-ventilated place. Keep cool.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.**• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.*

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.**• **Department issuing SDS:** Environment protection department.**• **Contact:** - Department Technical Manager**• **Date of previous version** 03/01/2024**• **Date of preparation** 06/30/2026**• **Abbreviations and acronyms:****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**DOT: US Department of Transportation**IATA: International Air Transport Association**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)**NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**NIOSH: National Institute for Occupational Safety**OSHA: Occupational Safety & Health**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**BEI: Biological Exposure Limit**Flammable liquids 2: Flammable liquids – Category 2**Skin irritation 2: Skin corrosion/irritation – Category 2**Sensitization - skin 1: Skin sensitisation – Category 1**Carcinogenicity 2: Carcinogenicity – Category 2**Reproductive toxicity 2: Reproductive toxicity – Category 2**Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3**Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) – Category 2**Aspiration hazard 1: Aspiration hazard – Category 1**• *** Data compared to the previous version altered.***