Safety Data Sheet
acc. to OSHA HCS

Printing date 11/25/2025 Reviewed on 11/25/2025

1 Identification

· **Product identifier**

· **Trade name: C-952**
· **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**


GHS08 Health hazard

Carcinogenicity 2	H351 Suspected of causing cancer.
Toxic to Reproduction 1B	H360 May damage fertility or the unborn child.


GHS07

Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.

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


GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
N,N-dimethylacetamide
· **Hazard statements**
Harmful if inhaled.
Suspected of causing cancer.
May damage fertility or the unborn child.
· **Precautionary statements**
Obtain special instructions before use.

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Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
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.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 3
Fire = 2
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

*Health = *2*
Fire = 2
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*

3 Composition/information on ingredients

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

· **Dangerous components:**		
127-19-5	N,N-dimethylacetamide	99.95%

· **Non-hazardous components**		
67-66-3	trichloromethane	0.01%
71-43-2	benzene	0.01%
75-09-2	dichloromethane	0.01%
79-01-6	trichloroethylene	0.01%
107-06-2	1,2-dichloroethane	0.01%

4 First-aid measures

· **Description of first aid measures**
· **General information:**
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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** *Generally the product does not irritate the skin.*
· **After eye contact:** *Rinse opened eye for several minutes under running water.*

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· ***After swallowing:*** *If symptoms persist consult doctor.*
· ***Information for 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*** *No further relevant information available.*
· ***Advice for firefighters***
· ***Protective equipment:*** *Mouth respiratory protective device.*

* 6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures*** *Not required.*
· ***Environmental precautions:*** *Do not allow to enter sewers/ surface or ground water.*
· ***Methods and material for containment and cleaning up:***
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· ***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.
· ***Protective Action Criteria for Chemicals***

· ***PAC-1:***		
127-19-5	N,N-dimethylacetamide	30 ppm
67-66-3	trichloromethane	2.0 ppm
71-43-2	benzene	52 ppm
75-09-2	dichloromethane	200 ppm
79-01-6	trichloroethylene	130 ppm
107-06-2	1,2-dichloroethane	50 ppm

· ***PAC-2:***		
127-19-5	N,N-dimethylacetamide	67 ppm
67-66-3	trichloromethane	64 ppm
71-43-2	benzene	800 ppm
75-09-2	dichloromethane	560 ppm
79-01-6	trichloroethylene	450 ppm
107-06-2	1,2-dichloroethane	200 ppm

· ***PAC-3:***		
127-19-5	N,N-dimethylacetamide	400 ppm
67-66-3	trichloromethane	3200 ppm
71-43-2	benzene	4000* ppm
75-09-2	dichloromethane	6900 ppm
79-01-6	trichloroethylene	3800 ppm

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107-06-2	1,2-dichloroethane	300 ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
127-19-5 N,N-dimethylacetamide	
PEL	Long-term value: 35 mg/m³, 10 ppm Skin
REL	Long-term value: 35 mg/m³, 10 ppm Skin
TLV	Long-term value: 36 mg/m³, 10 ppm Skin; BEI, A3

· **Ingredients with biological limit values:**	
127-19-5 N,N-dimethylacetamide	
BEI	30 mg/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: N-Methylacetamide

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

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **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.

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· **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:** Not required.

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Solid
Color:	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/Melting range:	-20 °C (-4 °F)
Boiling point/Boiling range:	165.5 °C (329.9 °F)
· **Flash point:**	66 °C (150.8 °F)
· **Flammability:**	Not determined.
· **Auto igniting:**	390 °C (734 °F)
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	1.7 Vol %
Upper:	11.5 Vol %
· **Vapor pressure at 20 °C (68 °F):**	3.3 hPa (2.5 mm Hg)
· **Density at 20 °C (68 °F):**	0.94357 g/cm³ (7.87409 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not applicable.
· **Evaporation rate**	Not applicable.

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· **Solubility in / Miscibility with**	
Water:	Soluble.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· **Solvent content:**	
Organic solvents:	0.0 %
VOC content:	0.02 %
Solids content:	100.0 %
· **Other information**	No further relevant information available.

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:**		
ATE (Acute Toxicity Estimate)		
Dermal	LD50	2,241 mg/kg (rabbit)
Inhalative	LC50/4 h	1.5 mg/l

127-19-5 N,N-dimethylacetamide		
Oral	LD50	4,930 mg/kg (rat)
Dermal	LD50	2,240 mg/kg (rabbit)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
127-19-5	N,N-dimethylacetamide	2B
67-66-3	trichloromethane	2B

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71-43-2	benzene	1
75-09-2	dichloromethane	2A
79-01-6	trichloroethylene	1
107-06-2	1,2-dichloroethane	2B

· **NTP (National Toxicology Program)**		
67-66-3	trichloromethane	R
71-43-2	benzene	K
75-09-2	dichloromethane	R
79-01-6	trichloroethylene	K
107-06-2	1,2-dichloroethane	R

· **OSHA-Ca (Occupational Safety & Health Administration)**	
71-43-2	benzene
75-09-2	dichloromethane

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

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** not regulated

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· **UN proper shipping name** · **DOT, IMDG, IATA**	not regulated
· **Transport hazard class(es)** · **DOT, ADN, IMDG, IATA** · **Class**	not regulated
· **Packing group** · **DOT, IMDG, IATA**	not regulated
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	not regulated

* 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
This product contains Trichloroethylene (CAS No. 79-01-6), which is subject to risk management restrictions under the U.S. Toxic Substances Control Act (TSCA) Section 6(a), per EPA's final rule published on March 19, 2024 (89 FR 19446; 40 CFR Part 751, Subpart C).
Effective June 16, 2025, domestic manufacture, import, processing, and distribution in commerce of trichloroethylene are prohibited, except for specific conditions of use and time-limited exemptions. This product is intended solely for use as a laboratory reference standard. Laboratory uses essential for research and development and quality control are permitted under the TSCA exemption for laboratory use (40 CFR 751.407(e)(6)), and may continue until December 18, 2074. Users must ensure that this product is used exclusively in laboratory settings, in accordance with applicable federal, state, and local regulations.

· **Sara**

· **Section 355 (extremely hazardous substances):**	
67-66-3	trichloromethane

· **Section 313 (Specific toxic chemical listings):**	
67-66-3	trichloromethane
71-43-2	benzene
75-09-2	dichloromethane
79-01-6	trichloroethylene
107-06-2	1,2-dichloroethane

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**	
67-66-3	trichloromethane
71-43-2	benzene
75-09-2	dichloromethane
79-01-6	trichloroethylene
107-06-2	1,2-dichloroethane

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· **Proposition 65**

· **Chemicals known to cause cancer:**
All ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**	
127-19-5	N,N-dimethylacetamide
71-43-2	benzene
79-01-6	trichloroethylene

· **Chemicals known to cause developmental toxicity:**	
127-19-5	N,N-dimethylacetamide
67-66-3	trichloromethane
71-43-2	benzene
79-01-6	trichloroethylene

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**		
67-66-3	trichloromethane	B2, L, NL
71-43-2	benzene	A, K/L
75-09-2	dichloromethane	L
79-01-6	trichloroethylene	CaH
107-06-2	1,2-dichloroethane	B2

· **TLV (Threshold Limit Value)**		
127-19-5	N,N-dimethylacetamide	A4
67-66-3	trichloromethane	A3
71-43-2	benzene	A1
75-09-2	dichloromethane	A3
79-01-6	trichloroethylene	A2
107-06-2	1,2-dichloroethane	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
67-66-3	trichloromethane
71-43-2	benzene
75-09-2	dichloromethane
79-01-6	trichloroethylene
107-06-2	1,2-dichloroethane

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

GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
N,N-dimethylacetamide

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· ***Hazard statements***
Harmful if inhaled.
Suspected of causing cancer.
May damage fertility or the unborn child.
· ***Precautionary statements***
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
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.
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 preparation / last revision*** *11/25/2025 / -*
· ***Abbreviations and acronyms:***
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
Acute Toxicity - Inhalation 4: Acute toxicity – Category 4
Carcinogenicity 2: Carcinogenicity – Category 2
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B
· **** Data compared to the previous version altered.***