

1 Identification

- **Product identifier**
- **Product Name:** Stock Organic Standard
- **Part Name:** RS-AR-1
- **Application of the substance / the mixture** Certified Reference Material
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SPEX CertiPrep, LLC.
203 Norcross Ave, Metuchen,
NJ 08840 USA
- **Information department:** product safety department
- **Emergency telephone number:**
Emergency Phone Number (24 hours)
CHEMTREC (800-424-9300)
Outside US: 703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer.
Repr. 1B H360 May damage fertility or the unborn child.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.
Flam. Liq. 4 H227 Combustible liquid.

- **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
ethanol

- **Hazard statements**

H227 Combustible liquid.
H332 Harmful if inhaled.
H350 May cause cancer.
H360 May damage fertility or the unborn child.

- **Precautionary statements**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from flames and hot surfaces. – No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a poison center/doctor if you feel unwell.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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



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

HEALTH	2	Health = *2
FIRE	2	Fire = 2
REACTIVITY	0	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	92.5%
64-17-5	ethanol	0.5%

- **Chemical identification of the substance/preparation**

60-29-7	diethyl ether	0.5%
67-63-0	isopropyl alcohol	0.5%
67-64-1	acetone	0.5%
67-68-5	dimethyl sulfoxide	0.5%
71-23-8	propan-1-ol	0.5%
71-36-3	butan-1-ol	0.5%
71-41-0	Amyl alcohol	0.5%
78-78-4	isopentane	0.5%
78-92-2	butanol	0.5%
78-93-3	butanone	0.5%
108-21-4	isopropyl acetate	0.5%
109-66-0	pentane	0.5%
141-78-6	ethyl acetate	0.5%
142-82-5	heptane	0.5%

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.
- **After swallowing:** Do not give anything to eat or drink - Do not induce vomiting
- **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.

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- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** 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 item 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
60-29-7	diethyl ether	500 ppm
64-17-5	ethanol	1,800 ppm
67-63-0	isopropyl alcohol	400 ppm
67-64-1	acetone	200 ppm
67-68-5	dimethyl sulfoxide	150 ppm
71-23-8	propan-1-ol	250 ppm
71-36-3	butan-1-ol	60 ppm
78-78-4	isopentane	3000* ppm
78-92-2	butanol	150 ppm
78-93-3	butanone	200 ppm
108-21-4	isopropyl acetate	200 ppm
109-66-0	pentane	3000* ppm
141-78-6	ethyl acetate	1,200 ppm
142-82-5	heptane	500 ppm

· **PAC-2:**

127-19-5	N,N-dimethylacetamide	67 ppm
60-29-7	diethyl ether	3200* ppm
64-17-5	ethanol	3300* ppm
67-63-0	isopropyl alcohol	2000* ppm
67-64-1	acetone	3200* ppm
67-68-5	dimethyl sulfoxide	290 ppm
71-23-8	propan-1-ol	670 ppm
71-36-3	butan-1-ol	800 ppm
78-78-4	isopentane	33000*** ppm
78-92-2	butanol	220 ppm
78-93-3	butanone	2700* ppm
108-21-4	isopropyl acetate	2700* ppm
109-66-0	pentane	33000*** ppm
141-78-6	ethyl acetate	1,700 ppm
142-82-5	heptane	830 ppm

· **PAC-3:**

127-19-5	N,N-dimethylacetamide	400 ppm
60-29-7	diethyl ether	19000*** ppm
64-17-5	ethanol	15000* ppm
67-63-0	isopropyl alcohol	12000** ppm
67-64-1	acetone	5700* ppm
67-68-5	dimethyl sulfoxide	1,800 ppm
71-23-8	propan-1-ol	4000* ppm

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71-36-3	butan-1-ol	8000** ppm
78-78-4	isopentane	200000*** ppm
78-92-2	butanol	10000** ppm
78-93-3	butanone	4000* ppm
108-21-4	isopropyl acetate	16000** ppm
109-66-0	pentane	200000*** ppm
141-78-6	ethyl acetate	10000** ppm
142-82-5	heptane	5000* ppm

7 Handling and storage

- **Handling:**
- **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.
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 item 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

64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm

REL Long-term value: 1900 mg/m³, 1000 ppm

TLV Short-term value: 1880 mg/m³, 1000 ppm

- **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.
- **Respiratory protection:**
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:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odour Threshold:	Not applicable.

· pH-value: Not applicable.

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	165.5 °C (329.9 °F)

· Flash point: > 60 °C (> 140 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 390 °C (734 °F)

· Decomposition temperature: Not applicable.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Not determined.

· 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) 0.93221-0.93223 g/cm³ (7.77929-7.77946 lbs/gal)

· Relative density Not applicable.

· Vapor density Not applicable.

· Evaporation rate Not applicable.

· Solubility in / Miscibility with

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not applicable.

· Viscosity:

Dynamic:	Not applicable.
Kinematic:	Not applicable.

· Solvent content:

Organic solvents:	7.5 %
VOC content:	7.00 %

Solids content: 92.5 %

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· **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:**

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 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
Product is suspected to cause damage to fertility.
Product is suspected to cause birth defects.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

127-19-5	N,N-dimethylacetamide	2B
64-17-5	ethanol	1
67-63-0	isopropyl alcohol	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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.

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- **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, ADR, IMDG, IATA	Not Regulated
· UN proper shipping name · DOT, ADR, IMDG, IATA	Not Regulated
· Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class	Not Regulated
· Packing group · DOT, ADR, 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**
- **Sara**

· Section 313 (Specific toxic chemical listings):		
67-63-0	isopropyl alcohol	
71-36-3	butan-1-ol	
78-92-2	butanol	
· TSCA (Toxic Substances Control Act):		
All components have the value ACTIVE.		
· Hazardous Air Pollutants		
None of the ingredients is listed.		
· Proposition 65		
· Chemicals known to cause cancer:		
127-19-5	N,N-dimethylacetamide	
· 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	
· Chemicals known to cause developmental toxicity:		
127-19-5	N,N-dimethylacetamide	
64-17-5	ethanol	
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
67-64-1	acetone	I
71-36-3	butan-1-ol	D
78-93-3	butanone	I
142-82-5	heptane	D
· TLV (Threshold Limit Value established by ACGIH)		
127-19-5	N,N-dimethylacetamide	A4
64-17-5	ethanol	A3
67-63-0	isopropyl alcohol	A4
67-64-1	acetone	A4

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71-23-8 propan-1-ol

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**

GHS07

GHS08

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

N,N-dimethylacetamide

ethanol

· **Hazard statements**

H227 Combustible liquid.

H332 Harmful if inhaled.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from flames and hot surfaces. – No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a poison center/doctor if you feel unwell.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **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:** product safety department· **Contact:**

SPEX CertiPrep, LLC.

1-732-549-7144

· **Date of preparation / last revision** 09/21/2020 / -· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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

ACGIH: American Conference of Governmental Industrial Hygienists

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

BEL: Biological Exposure Limit

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Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 4: Acute toxicity – Category 4
Carc. 1A: Carcinogenicity – Category 1A
Repr. 1B: Reproductive toxicity – Category 1B

US