

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/02/2021

Reviewed on 07/02/2021

1 Identification

- **Product identifier**
- **Product Name:** Stock Organic Standard
- **Part Name:** USP-RS-C3A-R1
- **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.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- **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:**

ethanol

- **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer.

- **Precautionary statements**

P201 Obtain special instructions before use.

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

P264 Wash thoroughly after handling.

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

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

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)**



- **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:**

67-68-5	dimethyl sulfoxide	97.7%
108-10-1	4-methylpentan-2-one	0.1%
64-17-5	ethanol	0.1%

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

71-41-0	Amyl alcohol	0.1%
71-23-8	propan-1-ol	0.1%
78-92-2	butanol	0.1%
78-93-3	butanone	0.1%
78-83-1	2-methylpropan-1-ol	0.1%
67-63-0	isopropyl alcohol	0.1%
123-51-3	Isoamyl alcohol	0.1%
67-64-1	acetone	0.1%
100-66-3	anisole	0.1%
123-86-4	n-butyl acetate	0.1%
60-29-7	diethyl ether	0.1%
141-78-6	ethyl acetate	0.1%
109-94-4	ethyl formate	0.1%
110-19-0	isobutyl acetate	0.1%
108-21-4	isopropyl acetate	0.1%
79-20-9	methyl acetate	0.1%
142-82-5	heptane	0.1%
109-66-0	pentane	0.1%
109-60-4	propyl acetate	0.1%
1634-04-4	Methyl-tert-butyl ether	0.1%
71-36-3	butan-1-ol	0.1%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **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.

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· **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:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **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:**

67-68-5	dimethyl sulfoxide	150 ppm
71-23-8	propan-1-ol	250 ppm
78-92-2	butanol	150 ppm
78-93-3	butanone	200 ppm
78-83-1	2-methylpropan-1-ol	150 ppm
67-63-0	isopropyl alcohol	400 ppm
123-51-3	Isoamyl alcohol	125 ppm
108-10-1	4-methylpentan-2-one	75 ppm
67-64-1	acetone	200 ppm
100-66-3	anisole	1.6 mg/m ³
123-86-4	n-butyl acetate	5 ppm
64-17-5	ethanol	1,800 ppm
60-29-7	diethyl ether	500 ppm
141-78-6	ethyl acetate	1,200 ppm
109-94-4	ethyl formate	100 ppm
110-19-0	isobutyl acetate	450 ppm
108-21-4	isopropyl acetate	200 ppm
79-20-9	methyl acetate	250 ppm
142-82-5	heptane	500 ppm
109-66-0	pentane	3000* ppm
109-60-4	propyl acetate	250 ppm
1634-04-4	Methyl-tert-butyl ether	50 ppm
71-36-3	butan-1-ol	60 ppm

· **PAC-2:**

67-68-5	dimethyl sulfoxide	290 ppm
71-23-8	propan-1-ol	670 ppm
78-92-2	butanol	220 ppm
78-93-3	butanone	2700* ppm
78-83-1	2-methylpropan-1-ol	1,300 ppm
67-63-0	isopropyl alcohol	2000* ppm
123-51-3	Isoamyl alcohol	1700* ppm
108-10-1	4-methylpentan-2-one	500 ppm
67-64-1	acetone	3200* ppm

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100-66-3	anisole	18 mg/m ³
123-86-4	n-butyl acetate	200 ppm
64-17-5	ethanol	3300* ppm
60-29-7	diethyl ether	3200* ppm
141-78-6	ethyl acetate	1,700 ppm
109-94-4	ethyl formate	1,300 ppm
110-19-0	isobutyl acetate	1300* ppm
108-21-4	isopropyl acetate	2700* ppm
79-20-9	methyl acetate	1,700 ppm
142-82-5	heptane	830 ppm
109-66-0	pentane	33000*** ppm
109-60-4	propyl acetate	1,300 ppm
1634-04-4	Methyl-tert-butyl ether	570 ppm
71-36-3	butan-1-ol	800 ppm

· PAC-3:

67-68-5	dimethyl sulfoxide	1,800 ppm
71-23-8	propan-1-ol	4000* ppm
78-92-2	butanol	10000** ppm
78-93-3	butanone	4000* ppm
78-83-1	2-methylpropan-1-ol	8000* ppm
67-63-0	isopropyl alcohol	12000** ppm
123-51-3	Isoamyl alcohol	10000** ppm
108-10-1	4-methylpentan-2-one	3000* ppm
67-64-1	acetone	5700* ppm
100-66-3	anisole	110 mg/m ³
123-86-4	n-butyl acetate	3000* ppm
64-17-5	ethanol	15000* ppm
60-29-7	diethyl ether	19000*** ppm
141-78-6	ethyl acetate	10000** ppm
109-94-4	ethyl formate	8000* ppm
110-19-0	isobutyl acetate	7500** ppm
108-21-4	isopropyl acetate	16000** ppm
79-20-9	methyl acetate	10000* ppm
142-82-5	heptane	5000* ppm
109-66-0	pentane	200000*** ppm
109-60-4	propyl acetate	8000* ppm
1634-04-4	Methyl-tert-butyl ether	5300* ppm
71-36-3	butan-1-ol	8000** ppm

7 Handling and storage**· Handling:****· Precautions for safe handling**

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 item 7.

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· Control parameters

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

67-68-5 dimethyl sulfoxide

WEEL Long-term value: 250 ppm

108-10-1 4-methylpentan-2-onePEL Long-term value: 410 mg/m³, 100 ppmREL Short-term value: 300 mg/m³, 75 ppm
Long-term value: 205 mg/m³, 50 ppmTLV Short-term value: 307 mg/m³, 75 ppm
Long-term value: 82 mg/m³, 20 ppm
BEI**64-17-5 ethanol**PEL Long-term value: 1900 mg/m³, 1000 ppmREL Long-term value: 1900 mg/m³, 1000 ppmTLV Short-term value: 1880 mg/m³, 1000 ppm

· Ingredients with biological limit values:

108-10-1 4-methylpentan-2-oneBEI 1 mg/L
Medium: urine
Time: end of shift
Parameter: MIBK

· 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.
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 eyes.
Avoid contact with the eyes and skin.

· 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.

· 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

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· 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:	189 °C (372.2 °F)
· Flash point:	> 60 °C (> 140 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	270 °C (518 °F)
· Decomposition temperature:	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	1.8 Vol %
Upper:	63 Vol %
· Vapor pressure at 20 °C (68 °F):	2.5 hPa (1.9 mm Hg)
· Density at 20 °C (68 °F)	1.09356-1.09357 g/cm ³ (9.12576-9.12584 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:	100.0 %
VOC content:	99.80 %
Solids content:	0.0 %
· 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:**

67-68-5 dimethyl sulfoxide

Oral	LD50	14,500 mg/kg (rat)
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- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
 - **Sensitization:** No sensitizing effects known.
 - **Additional toxicological information:**
- The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

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· **Carcinogenic categories**

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

67-63-0	isopropyl alcohol	3
108-10-1	4-methylpentan-2-one	2B
64-17-5	ethanol	1
1634-04-4	Methyl-tert-butyl ether	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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **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, ADR, ADN, IMDG, IATA	Not Regulated
· UN proper shipping name	
· DOT, ADR, ADN, 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

US

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 313 (Specific toxic chemical listings):

78-92-2	butanol
78-93-3	butanone
67-63-0	isopropyl alcohol
108-10-1	4-methylpentan-2-one
1634-04-4	Methyl-tert-butyl ether
71-36-3	butan-1-ol

· TSCA (Toxic Substances Control Act):

67-68-5	dimethyl sulfoxide
71-41-0	Amyl alcohol
71-23-8	propan-1-ol
78-92-2	butanol
78-93-3	butanone
78-83-1	2-methylpropan-1-ol
67-63-0	isopropyl alcohol
123-51-3	Isoamyl alcohol
108-10-1	4-methylpentan-2-one
67-64-1	acetone
100-66-3	anisole
123-86-4	n-butyl acetate
64-17-5	ethanol
60-29-7	diethyl ether
141-78-6	ethyl acetate
109-94-4	ethyl formate
110-19-0	isobutyl acetate
108-21-4	isopropyl acetate
79-20-9	methyl acetate
142-82-5	heptane
109-66-0	pentane
109-60-4	propyl acetate
1634-04-4	Methyl-tert-butyl ether
71-36-3	butan-1-ol

· Proposition 65

· Chemicals known to cause cancer:

108-10-1	4-methylpentan-2-one
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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-10-1	4-methylpentan-2-one
64-17-5	ethanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

78-93-3	butanone	I
108-10-1	4-methylpentan-2-one	I
67-64-1	acetone	I
142-82-5	heptane	D
71-36-3	butan-1-ol	D

· TLV (Threshold Limit Value)

71-23-8	propan-1-ol	A4
67-63-0	isopropyl alcohol	A4

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67-64-1	acetone	A4
64-17-5	ethanol	A3
1634-04-4	Methyl-tert-butyl ether	A3

· **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:**

ethanol

· **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer.

· **Precautionary statements**

P201 Obtain special instructions before use.

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

P264 Wash thoroughly after handling.

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

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

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** 07/02/2021 / -

· **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

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Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Carc. 1A: Carcinogenicity – Category 1A

US