

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/21/2020

Reviewed on 09/21/2020

1 Identification

- **Product identifier**
- **Product Name:** Stock Organic Standard
- **Part Name:** RS-AR-2
- **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. 2 H351 Suspected of causing cancer.
Repr. 1B H360 May damage fertility or the unborn child.



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:**
N,N-dimethylacetamide
- **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing 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.
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	97.671%
67-56-1	methanol	0.3%
100-41-4	ethylbenzene	0.217%
127-19-5	N,N-dimethylacetamide	0.109%

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

110-82-7	cyclohexane	0.388%
95-47-6	o-xylene	0.217%
106-42-3	p-xylene	0.217%
108-38-3	m-xylene	0.217%
108-88-3	toluene	0.089%
68-12-2	N,N-dimethylformamide	0.088%
109-99-9	tetrahydrofuran	0.072%
107-21-1	ethanediol	0.062%
75-09-2	dichloromethane	0.06%
75-05-8	acetonitrile	0.041%
123-91-1	1,4-dioxane	0.038%
75-83-2	2,2-dimethylbutane	0.029%
79-29-8	2,3-dimethylbutane	0.029%
96-14-0	3-methylpentane	0.029%
107-83-5	2-methylpentane	0.029%
110-54-3	n-hexane	0.029%
110-86-1	PYRIDINE	0.02%
110-80-5	2-ethoxyethanol	0.016%
126-33-0	sulpholane	0.016%
110-71-4	1,2-dimethoxyethane	0.01%
98-82-8	isopropylbenzene	0.007%
71-43-2	benzene	0.0002%

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

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- **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:** 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.
- **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
110-82-7	cyclohexane	300 ppm
67-56-1	methanol	530 ppm
100-41-4	ethylbenzene	33 ppm
108-38-3	m-xylene	130 ppm
127-19-5	N,N-dimethylacetamide	30 ppm
108-88-3	toluene	67 ppm
68-12-2	N,N-dimethylformamide	2 ppm
109-99-9	tetrahydrofuran	100 ppm
107-21-1	ethanediol	30 ppm
75-09-2	dichloromethane	200 ppm
75-05-8	acetonitrile	13 ppm
123-91-1	1,4-dioxane	17 ppm
75-83-2	2,2-dimethylbutane	1,000 ppm
96-14-0	3-methylpentane	1,000 ppm
107-83-5	2-methylpentane	1,000 ppm
110-54-3	n-hexane	260 ppm
110-86-1	PYRIDINE	3 ppm
110-80-5	2-ethoxyethanol	15 ppm
126-33-0	sulpholane	4.1 mg/m ³
110-71-4	1,2-dimethoxyethane	13 ppm
98-82-8	isopropylbenzene	50 ppm
71-43-2	benzene	52 ppm

· **PAC-2:**

67-68-5	dimethyl sulfoxide	290 ppm
110-82-7	cyclohexane	1700* ppm
67-56-1	methanol	2,100 ppm
100-41-4	ethylbenzene	1100* ppm
108-38-3	m-xylene	920 ppm
127-19-5	N,N-dimethylacetamide	67 ppm
108-88-3	toluene	560 ppm
68-12-2	N,N-dimethylformamide	91 ppm

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109-99-9	tetrahydrofuran	500 ppm
107-21-1	ethanediol	150 ppm
75-09-2	dichloromethane	560 ppm
75-05-8	acetonitrile	50 ppm
123-91-1	1,4-dioxane	320 ppm
75-83-2	2,2-dimethylbutane	11000** ppm
96-14-0	3-methylpentane	11000** ppm
107-83-5	2-methylpentane	11000** ppm
110-54-3	n-hexane	2900* ppm
110-86-1	PYRIDINE	19 ppm
110-80-5	2-ethoxyethanol	1,000 ppm
126-33-0	sulpholane	45 mg/m ³
110-71-4	1,2-dimethoxyethane	140 ppm
98-82-8	isopropylbenzene	300 ppm
71-43-2	benzene	800 ppm

· PAC-3:

67-68-5	dimethyl sulfoxide	1,800 ppm
110-82-7	cyclohexane	10000** ppm
67-56-1	methanol	7200* ppm
100-41-4	ethylbenzene	1800* ppm
108-38-3	m-xylene	2500* ppm
127-19-5	N,N-dimethylacetamide	400 ppm
108-88-3	toluene	3700* ppm
68-12-2	N,N-dimethylformamide	530 ppm
109-99-9	tetrahydrofuran	5000* ppm
107-21-1	ethanediol	900 ppm
75-09-2	dichloromethane	6,900 ppm
75-05-8	acetonitrile	150 ppm
123-91-1	1,4-dioxane	760 ppm
75-83-2	2,2-dimethylbutane	66000*** ppm
96-14-0	3-methylpentane	66000*** ppm
107-83-5	2-methylpentane	66000*** ppm
110-54-3	n-hexane	8600** ppm
110-86-1	PYRIDINE	3600* ppm
110-80-5	2-ethoxyethanol	6000* ppm
126-33-0	sulpholane	400 mg/m ³
110-71-4	1,2-dimethoxyethane	840 ppm
98-82-8	isopropylbenzene	730 ppm
71-43-2	benzene	4000* ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** 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

67-56-1 methanolPEL Long-term value: 260 mg/m³, 200 ppmREL Short-term value: 325 mg/m³, 250 ppm
Long-term value: 260 mg/m³, 200 ppm
SkinTLV Short-term value: 328 mg/m³, 250 ppm
Long-term value: 262 mg/m³, 200 ppm
Skin; BEI**100-41-4 ethylbenzene**PEL Long-term value: 435 mg/m³, 100 ppmREL Short-term value: 545 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppmTLV Long-term value: 87 mg/m³, 20 ppm
BEI**127-19-5 N,N-dimethylacetamide**PEL Long-term value: 35 mg/m³, 10 ppm
SkinREL Long-term value: 35 mg/m³, 10 ppm
SkinTLV Long-term value: 36 mg/m³, 10 ppm
Skin; BEI

· Ingredients with biological limit values:

67-56-1 methanol

BEI 15 mg/L

Medium: urine

Time: end of shift

Parameter: Methanol (background, nonspecific)

100-41-4 ethylbenzene

BEI 0.7 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

-

Medium: end-exhaled air

Time: not critical

Parameter: Ethyl benzene (semi-quantitative)

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.

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: Not required.

· Protection of hands:



Protective gloves

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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:	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** Not applicable.

- **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:	99.6 %
VOC content:	99.55 %

- **Solids content:** 0.1 %

- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.

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- **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)
------	------	--------------------

110-82-7 cyclohexane

Oral	LD50	12,705 mg/kg (rat)
------	------	--------------------

- **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

Product is suspected to cause damage to fertility.

Product is suspected to cause birth defects.

- **Carcinogenic categories**

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

95-47-6	o-xylene	3
100-41-4	ethylbenzene	2B
106-42-3	p-xylene	3
108-38-3	m-xylene	3
127-19-5	N,N-dimethylacetamide	2B
108-88-3	toluene	3
68-12-2	N,N-dimethylformamide	2A
109-99-9	tetrahydrofuran	2B
75-09-2	dichloromethane	2A
123-91-1	1,4-dioxane	2B
110-86-1	PYRIDINE	2B
98-82-8	isopropylbenzene	2B
71-43-2	benzene	1

- **NTP (National Toxicology Program)**

75-09-2	dichloromethane	R
123-91-1	1,4-dioxane	R
98-82-8	isopropylbenzene	R
71-43-2	benzene	K

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

75-09-2	dichloromethane
71-43-2	benzene

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

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- 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, 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):**

110-82-7	cyclohexane
67-56-1	methanol
95-47-6	o-xylene
100-41-4	ethylbenzene
106-42-3	p-xylene
108-38-3	m-xylene
108-88-3	toluene
68-12-2	N,N-dimethylformamide
107-21-1	ethanediol
75-09-2	dichloromethane
75-05-8	acetonitrile
123-91-1	1,4-dioxane
110-54-3	n-hexane
110-86-1	PYRIDINE
110-80-5	2-ethoxyethanol
110-71-4	1,2-dimethoxyethane
98-82-8	isopropylbenzene
71-43-2	benzene

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· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

67-56-1	methanol
95-47-6	o-xylene
100-41-4	ethylbenzene
106-42-3	p-xylene
108-38-3	m-xylene
108-88-3	toluene
68-12-2	N,N-dimethylformamide
107-21-1	ethanediol
75-09-2	dichloromethane
75-05-8	acetonitrile
123-91-1	1,4-dioxane
110-54-3	n-hexane
98-82-8	isopropylbenzene
71-43-2	benzene

· Proposition 65**· Chemicals known to cause cancer:**

100-41-4	ethylbenzene
127-19-5	N,N-dimethylacetamide
68-12-2	N,N-dimethylformamide
75-09-2	dichloromethane
123-91-1	1,4-dioxane
110-86-1	PYRIDINE
98-82-8	isopropylbenzene
71-43-2	benzene

· 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
110-54-3	n-hexane
110-80-5	2-ethoxyethanol
71-43-2	benzene

· Chemicals known to cause developmental toxicity:

67-56-1	methanol
127-19-5	N,N-dimethylacetamide
108-88-3	toluene
107-21-1	ethanediol
110-80-5	2-ethoxyethanol
71-43-2	benzene

· Carcinogenic categories**· EPA (Environmental Protection Agency)**

110-82-7	cyclohexane	I
95-47-6	o-xylene	I
100-41-4	ethylbenzene	D
106-42-3	p-xylene	I
108-38-3	m-xylene	I
108-88-3	toluene	II
109-99-9	tetrahydrofuran	SC
75-09-2	dichloromethane	L
75-05-8	acetonitrile	CBD, D
123-91-1	1,4-dioxane	L
110-54-3	n-hexane	II
98-82-8	isopropylbenzene	D, CBD

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71-43-2	benzene	A, K/L
· TLV (Threshold Limit Value established by ACGIH)		
95-47-6	o-xylene	A4
100-41-4	ethylbenzene	A3
106-42-3	p-xylene	A4
108-38-3	m-xylene	A4
127-19-5	N,N-dimethylacetamide	A4
108-88-3	toluene	A4
68-12-2	N,N-dimethylformamide	A4
109-99-9	tetrahydrofuran	A3
107-21-1	ethanediol	A4
75-09-2	dichloromethane	A3
75-05-8	acetonitrile	A4
123-91-1	1,4-dioxane	A3
71-43-2	benzene	A1
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
75-09-2	dichloromethane	
123-91-1	1,4-dioxane	
71-43-2	benzene	

· **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**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing 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.

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.

· **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

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

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