## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015 Issue date: 2024-08-13

Revision date: 2024-08-13 Version: 1.0

version: 1.0	
SECTION 1: Identification	
1.1. Identification	
Product form Product name	: Mixture : Revive
1.2. Recommended use and restrictions on	use
Use of the substance/mixture	: Instrument Rust and Stain Remover
1.3. Supplier	
<b>Manufacturer</b> Germiphene Corperation 1379 Colborne Street East Brantford, N3T 5M1 - Canada T 519-759-7100 - F 519-759-1625	
1.4. Emergency telephone number	
Emergency number	: CANUTEC 613-996-6666
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mixt	ure
GHS classification Flam. Liq. 3 Skin Corr. 1C Eye Dam. 1	
2.2. GHS Label elements, including precaut	tionary statements
GHS labelling Hazard pictograms (GHS)	

Signal word (GHS) Hazard statements (GHS)

Precautionary statements (GHS)

- : Danger
- : Flammable liquid and vapour.
- Causes severe skin burns and eye damage.
- : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed.
  - Ground/Bond container and receiving equipment.
  - Use explosion-proof electrical, ventilating, lighting equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Do not breathe dust, fume, spray, vapours, mist, gas.
  - Wash hands, forearms and face thoroughly after handling.
- Wear eye protection, face protection, protective clothing, protective gloves.
- If swallowed: rinse mouth. Do NOT induce vomiting.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

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and easy to do. Continue rinsing. Immediately call a poison center or doctor. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity

Not applicable

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
L-Lactic acid	L-Lactic acid Propanoic acid, 2-hydroxy-, (S)- (S)-2-Hydroxypropanoic acid (S)-Lactic acid (S)-(+)-Lactic acid L-(+)-Lactic acid (+)-Lactic acid Lactic acid, L- Propanoic acid, 2-hydroxy-, (2S)- Sarcolactic acid (S)-(+)-2-Hydroxypropanoic acid (+)-2-Hydroxypropanoic acid L-2-Hydroxypropanoic acid L-(+)-lactic acid Lactic acid, I-	CAS-No.: 79-33-4	10 – 30
Isopropyl alcohol	Isopropyl alcohol 2-Hydroxypropane 2-Propyl alcohol 2-Propanol Isopropanol Propan-2-ol ISOPROPYL ALCOHOL Propanol, 2- Isopropylic alcohol	CAS-No.: 67-63-0	3 - 7

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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First-aid measures after skin contact	: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor.
4.2. Most important symptoms and effects	s (acute and delayed)
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul> <li>May cause burns to the respiratory tract. May cause respiratory irritation.</li> <li>Causes severe skin burns. Symptoms may include redness, pain, blisters.</li> <li>Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.</li> </ul>
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	media	
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Carbon dioxide (CO2), dry chemical powder, foam. Water spray.</li><li>Do not use water jet.</li></ul>	
5.2. Specific hazards arising from the chem	ical	
Fire hazard Explosion hazard	<ul> <li>Flammable liquid and vapour. Products of combustion may include, and are not limited to: oxides of carbon. May release corrosive or irritating fumes.</li> <li>May form flammable/explosive vapour-air mixture.</li> </ul>	
5.3. Special protective equipment and precautions for fire-fighters		
Firefighting instructions Protection during firefighting	<ul> <li>Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.</li> <li>Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).</li> </ul>	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures :	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges. Remove all sources of ignition.	
6.1.1. For non-emergency personnel		
Emergency procedures :	Do not touch or walk on the spilled product.	
6.1.2. For emergency responders		
No additional information available		
6.2. Environmental precautions		

Prevent entry to sewers and public waters.

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6.3. Methods and material for containment and cleaning up		
For containment	: Stop leak if safe to do so. Remove all sources of ignition. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do no flush into surface water or sewer system. Wear recommended personal protective equipment.	
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Provide ventilation.	
6.4. Reference to other sections		

For further information refer to section 8: "Exposure controls/personal protection".

**SECTION 7: Handling and storage** 7.1. Precautions for safe handling Additional hazards when processed Handle empty containers with care because residual vapours are flammable. Precautions for safe handling Do not get in eyes, on skin, or on clothing. Do not swallow. Do not breathe dust/fume/gas/mist/vapours/spray. Handle and open container with care. When using do not eat, drink or smoke. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Use only nonsparking tools. Wear appropriate PPE (see Section 8). Hygiene measures Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling. 7.2. Conditions for safe storage, including any incompatibilities **Technical measures** : Proper grounding procedures to avoid static electricity should be followed. Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-Storage conditions

prevent leakage.

ventilated place. Containers which are opened should be properly resealed and kept upright to

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Revive	
No additional information available	
L-Lactic acid (79-33-4)	
No additional information available	
Isopropyl alcohol (67-63-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Propanol
ACGIH OEL TWA	200 ppm
ACGIH OEL STEL	400 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2023
USA - ACGIH - Biological Exposure Indices	
Local name	2-PROPANOL

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Isopropyl alcohol (67-63-0)	
BEI	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift at end of workweek (background, nonspecific)
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Li	mits
Local name	Isopropyl alcohol
OSHA PEL TWA	980 mg/m³
	400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Lim	nits
IDLH	2000 ppm (10% LEL)
USA - NIOSH - Occupational Exposure L	imits
NIOSH REL TWA	980 mg/m³
	400 ppm
NIOSH REL STEL	1225 mg/m <sup>3</sup>
	500 ppm
8.2. Appropriate engineering control	S
Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures/I	Personal protective equipment
Hand protection:	
Wear suitable gloves resistant to chemical p	penetration. Consult glove manufacturer's product information on material suitability and material thickness.
Eye protection:	
Wear eye/face protection	
Skin and body protection:	

Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and cher	mical properties
Physical state Appearance	: Liquid : Translucent liquid.

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Colour	: Yellowish
Odour	: Specific
Odour threshold	: No data available
pH	: 4-6
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 34 °C / 93.2 °F ASTM D56
Relative evaporation rate (butylacetate=1)	: No data available
Flammability	: Flammable liquid and vapour.
Vapour pressure	: No data available
Relative vapour density at 20°C / 68 °F	: No data available
Relative density	: 1.272
Solubility	: Infinite in water.
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: Viscous
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid** 

Heat. Sources of ignition. Direct sunlight. Incompatible materials.

10.5. Incompatible materials

Acids. Organic materials. Strong oxidizers. Sodium hydroxide. Nitromethane.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. May release flammable gases. May release corrosive or irritating fumes.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral)

: Not classified.

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Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified. : Not classified.
L-Lactic acid (79-33-4)	
LD50 oral rat	3730 mg/kg (Source: IUCLID)
LD50 dermal rabbit	> 2000 mg/kg (Source: NICNAS)
LC50 inhalation rat	> 7.94 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
ATE CA (oral)	3730 mg/kg bodyweight
Isopropyl alcohol (67-63-0)	
LD50 oral rat	5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	4059 mg/kg (Source: JAPAN_GHS)
LC50 inhalation rat	> 10000 ppm (Exposure time: 6 h Source: ECHA_API)
ATE CA (oral)	5840 mg/kg bodyweight
ATE CA (Dermal)	4059 mg/kg bodyweight
Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	pH: 4 – 6 : Causes serious eye damage. pH: 4 – 6
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Isopropyl alcohol (67-63-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
Isopropyl alcohol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Revive	
Viscosity, kinematic	Viscous
Symptoms/effects after inhalation	: May cause burns to the respiratory tract. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes severe skin burns. Symptoms may include redness, pain, blisters.
symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and
Symptoms/effects after ingestion	<ul> <li>tear production, with marked redness and swelling of the conjunctiva. May cause burns.</li> <li>May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.</li> </ul>
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: May cause long-term adverse effects in the aquatic environment.

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L-Lactic acid (79-33-4)	
LC50 - Fish [1]	320 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static] Source: IUCLID)
EC50 - Crustacea [1]	240 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	100 – 180 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [2]	180 – 320 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Isopropyl alcohol (67-63-0)	
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas

## 12.2. Persistence and degradability

Revive	
Persistence and degradability	Not established.

## 12.3. Bioaccumulative potential

Revive		
Bioaccumulative potential	Not established.	
L-Lactic acid (79-33-4)		
Partition coefficient n-octanol/water	-0.54 (at 25 °C)	
Isopropyl alcohol (67-63-0)		
Partition coefficient n-octanol/water	0.05 (at 25 °C)	
12.4. Mobility in soil		

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No additional information available

12.5. Other adverse effects

Other information

: No other effects known.

: UN2924

SECTION 13: Disposal consideration	5
13.1. Disposal methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: Handle empty containers with care because residual vapours are flammable. Recycle empty containers where allowed.

SECTION 14: Transport inform	nation		
In accordance with DOT / TDG / IMDG /	ΙΑΤΑ		
14.1. UN number			
UN-No.(DOT)	: UN2924		

UN-No. (TDG)		

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UN-No. (IMDG)	: 2924
UN-No. (IATA)	: 2924
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Flammable liquids, corrosive, n.o.s. (L-Lactic acid; Isopropyl alcohol)</li> <li>FLAMMABLE LIQUID, CORROSIVE, N.O.S. (L-Lactic acid; Isopropyl alcohol)</li> <li>FLAMMABLE LIQUID, CORROSIVE, N.O.S. (L-Lactic acid; Isopropyl alcohol)</li> <li>Flammable liquid, corrosive, n.o.s. (L-Lactic acid; Isopropyl alcohol)</li> </ul>
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT) Hazard labels (DOT)	: 3 (8) : 3, 8
<b>TDG</b> Transport hazard class(es) (TDG) Hazard labels (TDG)	$\begin{array}{c} : 3 (8) \\ : 3, 8 \\ \hline \\ 3 \\ \end{array}$
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 3 (8) : 3, 8
IATA Transport hazard class(es) (IATA) Danger labels (IATA)	: 3 (8) : 3, 8
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: III : III : III : III
14.5. Environmental hazards	
Other information	: No supplementary information available.

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#### 14.6. Special precautions for user

Special transport precautions

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

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

#### **15.1 Federal regulations**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories except for:	
Octanoic acid, pentadecafluoro-	CAS-No. 335-67-1

#### 15.2. International regulations

#### No additional information available

#### 15.3. US State regulations

\land WARNING:

This product can expose you to Perfluorooctanoic acid, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

### **SECTION 16: Other information**

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015 Revision date : 08/13/2024 Other information ·

Prepared by

None.

: Nexreg Compliance Inc.

www.Nexreg.com

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Full text of hazard classes and H-statements	
Eye Dam. 1     Serious eye damage/eye irritation, Category 1	
Flam. Liq. 3 Flammable liquids, Category 3	
Skin Corr. 1C Skin corrosion/irritation, Category 1C	

SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2023

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