

**Product name:** EM-Tec STC33 Isopropanol solvent / thinner / cleaner  
**Document Nr.:** SDS0015001150-01

**Date:** October 5th 2022

**Version:** 4.0

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## Section 1: Identification of the substance or mixture and the company

### 1.1. Product Identifier

EM-Tec STC33 Isopropanol solvent / thinner / cleaner.  
Registration number (REACH): 01-2119457558-25-xxxx  
Index number in CLP Annex VI: 603-117-00-0

EC #: 200-661-7

CAS #:67-63-0

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Diluting, removing, and cleaning of EM-Tec alcohol-based carbon paint

### 1.3. Details of the supplier of the Safety Data Sheet

Rave Scientific  
100 Franklin Square Dr.  
Suite 101  
Somerset, NJ 08873  
Telephone: 1-732-898-3828  
Email: [info@ravescientific.com](mailto:info@ravescientific.com)  
Web: [www.ravescientific.com](http://www.ravescientific.com)

### 1.4 Emergency telephone number

911 (USA) or your national emergency telephone number for chemical spills, leaks, fires, exposures or accidents

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture according to Regulation EC Nr. 1272/2008

<b>Physical:</b>	Flammable liquid, category 2, H225
<b>Health:</b>	Serious eye damage, category 2, H319 Specific target organ toxicity – single exposure, category 3, H336 (narcotic effects, drowsiness)
<b>Environment:</b>	Not classified
<b>Other hazards:</b>	Not classified
<b>Environment:</b>	Not classified
<b>Other hazards:</b>	Not classified

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## 2.2 Labelling elements accordance to Regulation EC Nr. 1272/2008

Hazard pictogramm(s):



GHS02, GHS07

**Signal word:**

**Danger**

**Hazard statement(s):**

H225: Highly flammable liquid and vapour  
H319: Causes serious eye irritation  
H336: May cause drowsiness or dizziness

**Precautionary statement(s):**

P102: Keep out of reach of children  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233: Keep container tightly closed  
P241: Use explosion-proof (electrical/ventilating/lighting) equipment  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing  
P337/313: If eye irritation persists; get medical advice/attention  
P370/378: In case of fire: Use foam or dry agent for extinction  
P405: Store locked up  
P501-2: Dispose of contents/container to an authorised waste collection point

## 2.3 Other hazards

### Results of PBT and vPvB assessment

According to the results of its assessment, the substance is not a PBT or a vPvB

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### Section 3: Composition / information on components

#### 3.1. Substances

1. CAS No 2. EC No 3. Index No 4. REACH No	% (weight)	Name	Classification according to regulation Nr 1272/2008 [CLP]
67-63-1 200-661-7 603-117-00-0 01-2119457558-25-xxxx	100	Isopropanol Isopropyl-Alcohol (2-Propanol)	Flam. Liq. 2, Eye Irri. 2A, STOT SE 3; H225, H319, H335, EUH066

(\* Explanation notes: see section 16)

#### 3.2 Mixtures

Not applicable

### Section 4: First aid measures

#### 4.1. Description of first aid measures

- General information:** The usual precautions for handling chemical substances should be observed. If symptoms should occur, seek medical advice.  
Immediately remove any clothing soiled by the product
- Contact with eyes:** Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing.
- Contact with skin:** Wash with water and soap.  
Seek medical attention if irritation persists.
- Inhalation:** Fresh air, keep warm and at rest.  
Seek medical attention if ill effects occur
- Ingestion:** If swallowed, do not induce vomiting  
Seek immediate medical advice

#### 4.2. Important symptoms and effects, either immediate or delayed

No further relevant information available

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## 4.3. Indication of any immediate medical attention and special treatment

No further relevant information available

## Section 5: Firefighting Measures

### 5.1. Extinguishing media

Alcohol resistant foam. Water spray. Polyvalent foam. BC powder. Carbon dioxide.  
Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Direct fire hazard. Highly flammable. Gas / vapour flammable with air within explosion limits.  
Indirect fire hazard. May be ignited by sparks. Gas / vapour spreads to floor level: ignition hazard.  
Direct explosion hazard  
Indirect explosion hazard  
Upon combustion CO and CO<sub>2</sub> are formed. Violent to explosive reaction with many compounds.  
Keep away from strong oxidisers.

### 5.3 Advice to firefighters

Fight fire from a safe distance, with adequate cover  
Do not move the load if exposed to heat.  
In case of fire; do not breathe fumes  
Wear self-contained breathing apparatus for fire fighting

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources  
Ensure adequate ventilation  
Wear suitable protective clothing including eye/face protection

### 6.2 Environmental precautions

Avoid release to the environment  
Do not allow to enter public sewers and waterways

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## 6.3 Methods and material for containment and clean up

Absorb spillage in suitable inert material  
Clean up spills immediately  
Avoid breathing vapours  
Control personal contact with the substance, by using protective equipment  
Collect spillage, absorbed spillage and wipes in a flammable waste container  
Wash spill area with soap and water to remove last traces of residue

## 6.4 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

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Keep away from sources of ignition  
Take precautions against static discharges  
Equipment should be grounded  
Use explosion proof electrical/ventilating/lighting/equipment  
Only use non-sparking tools  
Do not breathe aerosols or vapours  
Ensure adequate ventilation  
Avoid contact with skin and eyes  
Wash thoroughly after use  
Wear protective gloves/protective clothing/eye protection/face protection  
Have eyewash bottles available

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed, in a cool, well-ventilated place  
Keep away from ignition sources  
Store away from oxidising agents  
Keep out of reach of children

### 7.3 Specific end uses(s)

Solvent / thinner / cleaner for EM-Tec solvent-based silver / nickel / carbon paint / cement /paste.

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## Section 8: Exposure control and personal protection

### 8.1. Control parameters

#### Exposure limits

#### Occupational exposure limits (OEL)

Ingredient	Material Name	Source	TWA	STEL	Peak	Notes
Isopropyl Alcohol	Isopropanol	EU	200ppm	200ppm	Not available	Not available

### 8.2 Exposure controls

- Control procedures:** Ensure adequate ventilation  
Keep away from heat sources and ignition sources  
Take precautions against static discharges
- Personal protection:** Take precautions to avoid contact with eyes and skin when handling the products  
Ensure adequate ventilation
- Inhalation:** In case of insufficient ventilation, wear suitable respiratory equipment:  
Air purifying respirator with organic gas/vapour cartridge (type A)
- Hands and skin:** Wear suitable gloves against chemicals; recommended gloves:  
Nitrile
- Eyes:** Wear safety goggles or full-face protection

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Appearance/physical state:** Liquid
- Colour:** colourless
- Odour:** Alcohol / Stuffy mild odour
- pH** No data available
- Melting point:** -89°C
- Boiling point/range:** 82°C
- Flash point:** 12°C (closed cup)
- Relative evaporation rate:** 6
- Explosion limits: upper limit:** 13.4%
- lower limit:** 2%
- Vapour pressure:** 43 hPa @ 20°C
- Relative density:** 0.79 g/cm<sup>3</sup> @ 20°C
- Solubility in water:** soluble

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**Auto-ignition:** 425°C  
**Viscosity:** not determined

## 9.2 Other information

**VOC:** 100% Isopropyl Alcohol

## Section 10: Stability and reactivity

### 10.1. Reactivity

Violent to explosive reaction with (strong) oxidisers. Prolonged storage/in large quantities: may form Peroxides.

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

May react violently with oxidants

### 10.4 Conditions to avoid

Direct sunlight. High temperatures. Incompatible materials. Open flame. Sparks

### 10.5 Incompatible materials

Ammonia. Strong oxidisers. Strong acids

### 10.6 Hazardous decomposition products

CO, CO<sub>2</sub>.

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## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure:

- Inhalation:** Inhalation of solvent vapours may give rise to nausea, headaches, and dizziness
- Skin contact:** Prolonged skin contact will result in defatting of the skin, leading to irritation and in some cases to dermatitis
- Eye contact:** Causes serious eye irritation
- CMR effects:** Carcinogenicity classification criteria not met based on available data  
 Germ cell mutagenicity classification criteria not met based on available data  
 Reproductive toxicity classification criteria not met based on available data
- STOT-single exposure:** may cause drowsiness or dizziness
- STOT- repeated exposure:** classification criteria not met based on available data
- Aspiration hazard:** classification criteria not met based on available data

#### Toxicological data:

Ingredient	Toxicity	Notes
Isopropyl Alcohol Isopropanol	Dermal (rabbit) LD50: 12800mg/kg	
	Inhalation (rat) LC50: 73mg/l/4h	
	Oral (rat) LD50: 5045 mg/kg	Skin (rabbit): 500mg/24hr - mild

#### Symptoms related to physical, chemical and toxicological characteristics

- If swallowed:** vomiting, nausea, gastrointestinal complaints
- If in eyes:** causes serious eye irritation
- If inhaled:** fatigue, dizziness, narcosis
- If on skin:** repeated exposure may cause skin dryness or cracking

### 11.2. Endocrine disrupting properties

Not listed

### 11.3. Toxicity

There is no additional information

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## Section 12: Ecological information

### 12.1. Toxicity

Not classified

### 12.2 Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Isopropyl Alcohol	Readily biodegradable	Medium

### 12.3 Bio-accumulative potential

Ingredient	Bioaccumulation
Isopropyl Alcohol	LOW (Log Kow < 4)

### 12.4 Mobility in soil

Ingredient	Bioaccumulation
Isopropyl Alcohol	HIGH

### 12.5 Results of PBT and vPvB assessment

No information available

### 12.6 Hazardous decomposition products

No experimental data available

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Product:** This material and its container must be disposed of in a safe way.  
Do not discharge into drains or the environment, dispose to an authorised waste collection point.

**National regulations:** Disposal should be in accordance with local, state or national legislation.

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## Section 14: Transport information

Labels required:



### 14.1. UN number

UN-number: 1219

### 14.2 UN proper shipping name

Proper shipping name: Isopropyl alcohol

### 14.3 Transport hazard class(es)

Class: 3  
ADR/RID-Classification code: F1

### 14.4 Packing group

Packing: II  
Limited Quantity 1L

### 14.5 Incompatible materials

ADR/RID- Environmentally hazardous: Not applicable  
IMDG-Marine pollutant: No relevant data  
IATA/ICAO-Environmentally hazardous: No relevant data

### 14.6 Special precautions for user

ADR/RID-Tunnel code: (D/E)  
IMDG-EMS: F-E, S-D  
IATA/ICAO-PAX: 353  
IATA/ICAO-CAO: 364  
IATA/ICAO-DGR: Y341

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## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable

## Section 15: Regulatory information

### 15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture

UN-number: 1219

### 15.2 Chemical safety assessment

No information available

## Section 16: Other information

### RoHS Directive Compliant

This product is fully compliant with the directive 2100/65/EU Annex II (RoHS). It does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's or PBDE's.

### WEEE

This product is not a piece of electrical or electronic equipment, and it therefore not governed by Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)

### Abbreviations:

Asp. Tox	Aspiration hazard
Carc.	Carcinogenicity
Exp.	Exposure
Flam.	Flammable
GHS	Global Harmonised System of Classification of Labelling Chemicals
Irrit.	Irritant
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
N/A	Not applicable
N/E	Not estimated
PBT	Persistent Bio-accumulative and Toxic
WEL	Workplace Exposure Limit
Repr.	Reproductive toxicant
RoHS	Restriction of Hazardous Substance
SEM	Scanning Electron Microscope
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity

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TCLo	Lowest published toxic concentration	(Contd. of page 11)
vPvB	very Persistent and very Bio-accumulative	
WEEE	Waste Electrical and Electronic Equipment	

## DSD / DPD label elements



## Relevant phrases

H225 – Highly flammable liquid and vapour.

H319 – Causes serious eye irritation.

H335 – May cause respiratory irritation.

H336 – May cause drowsiness or dizziness

This product should be stored, handled, and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.

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