**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name :  **IPA**

Other Means of Identification : Isopropyl Alcohol

Recommended Use : Sap Remover

Restrictions on Use : For Industrial and professional use

Company The Green Company

2570 S. Copper Frontage

Steamboat Springs, CO 80487

Emergency telephone (800) 870-8540

Poison control center (800)-222-1222

Issuing date 04/12/2018

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Flammable Liquids : Category 2

Serious eye damage : Category 2A

Specific Target Organ : Category 3

Toxicity (Single Exposure)

**GHS Label element**

Hazard pictogram :

Signal Word : Danger

Hazard Statements : Highly Flammable Liquid and Vapor.

 May form explosives mixtures in Air.

 Causes Serious eye irritation.

Precautionary Statements **: Prevention:**

Wear protective gloves. Wear eye of face protection. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting, and material-handling equipment. Use only non- sparking tools. Take precautionary measures against static charge. Keep container tightly closed. Use only outdoors or in well- ventilated areas. Avoid breathing vapor. hands thoroughly after handling.

 **Response:**

IF IN EYES: Rinse cautiously with water for several minutes.

 Remove contact lenses, if present and easy to do. Continue

 rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call

 Poison Control Immediately.

 IF ON SKIN (or hair): Remove /Take off immediately all

 contaminated clothing. Rinse skin with water/ shower.

 IF INHALED: Remove victim to fresh air and keep at rest in a

 Position comfortable for breathing. Immediately call a POISON

 Center or doctor/ physician.

 Wash contaminated clothing before reuse.

 **Storage**

Store locked up. Store in well-ventilated place. Keep cool.

 **Disposal**

Dispose of contents/ container to an approved waste disposal

plant.

**Other Hazards** : None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Substance

Chemical Name : Isopropyl Alcohol

**Chemical name CAS-No. Concentration (%)**

Isopropyl Alcohol 67-63-0 99%

**SECTION 4. FIRST AID MEASURES**

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

 for at least 15 minutes. Remove contact lenses, if present and

 easy to do. Continue rinsing. Get medical attention immediately.

In case skin contact  : Flush contaminated skin with plenty of water. Remove

 Contaminated clothing and shoes. Get medical attention

 If symptoms occur.

If Swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

 anything by mouth to an unconscious person. Get medical

 attention immediately.

If Inhaled : Remove victim to fresh air and keep at rest in a comfortable

 Position. If not breathing, if breathing is irregular, or if respiratory

 Arrest occurs, provide artificial respiration or oxygen by trained

 Professional. It may be dangerous to provide mouth-to mouth.

 Get medical attention. If necessary, call poison center or

 Physician. Maintain an open airway. Loosen tight clothes.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific

 personal protective equipment.

Notes to Physician : Treat symptomatically. Contact poison treatment specialist

 Immediately if large quantities have been ingested or inhaled.

Most important symptoms : See section 11 for more detailed information on health effects

and effects, both acute and and symptoms.

Delayed

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use dry chemical, CO2 , water spray (fog) or foam.

Unsuitable extinguishing : Do not use water jet.

media

Specific hazards arising from the : Highly Flammable liquid and vapor. In a fire or if heated,

chemical a pressure increase will occur and the container may burst,

with the risk of a subsequent explosion. The vapor/gas is heavier

than air and will spread along the ground. Vapors may

accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back. Runoff to sewer

may create fire or explosion hazard.

Hazardous combustion : Carbon Dioxide

products Carbon monoxide.

Special protective Actions : Promptly isolate the scene by removing all persons from the

For Fire-fighter Vicinity of the incident if there is a fire.

 No action shall be taken

 Involving any personal risk or without suitable training. Move

 Containers from fire area if this can be done without risk. Use

 Water spray to keep fire exposed, containers cool.

Special protective equipment : Fire fighters should wear appropriate protective equipment.

For Fire-fighter Self-contained breathing apparatus (SCBA) with a full face-

 Piece operated in positive pressure mode.

Specific extinguishing : Isolate scene, and remove all persons in vicinity of the incident.

methods Risk of Explosion. If large quantities are involved evacuate area.

 Fire residues and contaminated fire extinguishing water must be

 disposed of in accordance with local regulations. In the event of

 fire and/or explosion do not breathe fumes.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective : No action shall be taken involving any personal risk or without

Equipment and Emergency Without suitable training. Evacuate surrounding areas. Keep

Procedures unnecessary and unprotected personnel from entering. Do not

 Touch or walk through spilled material. Shut off all ignition

 Sources. No flares, smoking, or flames in hazard are. Avoid

 Breathing vapor or mist. Provide adequate ventilation. Wear

 Appropriate respirator when ventilation is inadequate. Put on

 Appropriate personal protective equipment.

Emergency Responders : If specialized is required to deal with the spillage. Take note of

 Any information in section 8 on suitable and unsuitable materials.

Environmental Precautions : Avoid dispersal of spilled material and runoff and contact with

 Soil, waterways, drains, and sewers. Inform the relevant

 Authorities if the product has caused environmental pollution.

Methods and materials for : Small spill: Stop leak if without risk. Move containers from

containment and cleaning up spill area. Use spark-proof tool and explosion-proof equipment.

 Dilute with water and mop up if water soluble. Alternatively

 Or if water insoluble: absorb with an inert dry material and

 Place in disposable container. Dispose of via a licensed waste

 Disposal contractor.

 Large spill: Stop leak if without risk. Move containers from spill

 Area. Use spark proof tools and explosive proof equipment.

 Approach release from upwind. Prevent entry into sewers, water

 Courses, basements, or confined areas. Water spillages into an

 Effluent treatment plant or proceed as follows. Contain and

 Collect spillage with non-combustible and absorbent material.

 e.g. sand, earth, vermiculite, or diatomaceous earth and place in

 Container for disposal according to local regulations

 See Section 13. Dispose of via a licensed waste disposal

 Contractor. Contaminated absorbent material may pose same

 Hazard as the spilled product. Note: See Section for Emergency

 Contact information and section 13 for waste disposal.

**SECTION 7. HANDLING AND STORAGE**

Protective Measures : Put on appropriate personal protective equipment (see Section 8).

 Do not ingest. Avoid contact with eyes, skin and clothing. Avoid

 breathing vapor or mist. Use only with adequate ventilation.

 Wear appropriate respirator when ventilation is inadequate. Do

 not enter storage areas and confined spaces unless adequately

 ventilated. Keep in the original container or an approved

 alternative made from a compatible material, kept tightly closed

 when not in use. Store and use away from heat, sparks, open

 flame or any other ignition source. Use explosion-proof electrical

 (ventilating, lighting and material handling) equipment. Use only

 non-sparking tools. Take precautionary measures against

 electrostatic discharges. Empty containers retain product residue

 and can be hazardous. Do not reuse container.

Advice on general : Eating, drinking and smoking should be prohibited in areas Occupational hygiene where this material is handled, stored and processed. Workers

 should wash hands and face before eating, drinking and smoking.

 Remove contaminated clothing and protective equipment before

 entering eating areas. See also section 8 for additional

 information on hygiene measures.

Conditions for Safe Storage, : Store in accordance with local regulations. Store in a segregated

Including any incompatibilities and approved area. Store in original container protected from

 direct sunlight in a dry, cool and well-ventilated area, away from

 incompatible materials (see Section 10) and food and drink. Store

 locked up. Eliminate all ignition sources. Separate oxidizing

 materials. Keep container tightly closed and sealed until ready for

 use. Containers that have been opened must be carefully

 resealed and kept upright to prevent leakage. Do not store in

 unlabeled containers. Use appropriate containment to avoid

 environmental contamination.

Storage Temperatures : -10 ̊C to 30 ̊C

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredients with workplace control parameters**

Ingredients CAS-No. Form of Permissible Basis
 exposure concentration

Isopropyl alcohol 67-63-0 TWA 200 ppm 8 hours ACGIH

 TWA 400 ppm 10 hours NIOSH REL

 TWA 400 ppm 8 hours OSHA Z1

Appropriate engineering : Use only with adequate ventilation. Use process enclosures,

controls local exhaust ventilation or other engineering controls to keep

 worker exposure to airborne contaminants below any

 recommended or statutory limits. The engineering controls also

 need to keep gas, vapor or dust concentrations below any lower

 explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure : Emissions from ventilation or work process equipment should be

controls checked to ensure they comply with the requirements of

 environmental protection legislation. In some cases, fume

 scrubbers, filters or engineering modifications to the process

 equipment will be necessary to reduce emissions to acceptable

 levels.

**Personal protective equipment**

Eye protection : Safety goggles

 Face-shield

Hand protection : Wear the following personal protective equipment:

 Standard glove type.

 Gloves should be discarded and replaced if there is any indication

 of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective

 gloves, safety goggles and protective clothing.

Respiratory protection : When workers are facing concentrations above the exposure limit

 they must use appropriate certified respirators.

Hygiene Measures : Handle in accordance with good industrial hygiene and safety

 practice. Remove and wash contaminated clothing before re-use.

 Wash face, hands and any exposed skin thoroughly after

 handling chemical products, before eating, smoking and using the

lavatory and at the end of every work period. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Liquid

Color : colorless

Odor : alcohol-like

pH : not available

Flash Point : closed cup: 11.7 degrees C (53.1 degrees F)

Odor Threshold : No data available

Melting point/freezing point : -90 C (-130 F)

Initial boiling point and : No data available

boiling range

Evaporation rate : 1.7 (butyl acetate = 1)

Flammability (solid, gas) : No data available

Upper explosion limit : 12%

Lower explosion limit : 2%

Vapor pressure : 4.4 kPa (33.002681467 mm Hg) [room temperature]

Relative vapor density : 2.1 (Air = 1)

Specific gravity : No data available

Relative density : 0.79

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n : 0.05

octanol/water

Auto ignition temperature : 465 degrees C (852.9 degrees F)

Thermal decomposition : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Molecular weight : No data available

VOC : None

**SECTION 10. STABILITY AND REACTIVITY**

Chemical Stability : This product is stable.

Possibility of Hazardous : Under normal conditions of storage and use, hazardous reactions

Reactions will not occur.

Conditions to Avoid : Avoid all possible sources of ignition (spark or flame). Do not

 pressurize, cut, weld, braze, solder, drill, grind or expose

 containers to heat sources of ignition. Do not allow vapor to

 accumulate in low or confined areas.

Incompatible materials : Oxidizing materials

Hazardous Decomposition : Under normal conditions, appropriate storage/use hazardous

 Hazardous decomposition products should not be produced.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Eye contact, Skin contact, inhalation, ingestion.

Exposure

**Potential Health Effects**

Eyes : Causes serious eye irritation.

Skin : Causes skin irritation, burns, blistering.

Ingestion : Adverse Symptoms such as stomach pains.

Inhalation : May cause central nervous system (CNS) depression. May cause

 Drowsiness or dizziness.

Chronic Exposure : Health injuries are not known or expected under normal use.

**Experience with human exposure**

Eye contact : Redness, Pain

Skin contact : Redness, Pain

Ingestion : Abdominal pain

Inhalation : Respiratory irritation, Cough

**Toxicity**

Acute oral toxicity : Acute toxicity estimate : > 486 mg/kg

Acute inhalation toxicity : No data available

Acute dermal toxicity : Acute Toxicity estimate: >2000 mg/kg

Skin corrosion/irritation : No data available

Serious eye damage/ : No data available

eye irritation

Respiratory or skin : No data available

sensitization

Carcinogenicity : No data available

Reproductive effects : No data available

Germ cell mutagenicity : No data available

Teratogenicity : No data available

STOT –single exposure : No data available

STOT –repeated exposure : No data available

Aspiration toxicity : No data available

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Environmental Effects : Toxic to aquatic life.

**Product**

Toxicity to fish : Acute 1.38mg/L 72 hours

Toxicity to daphnia and other : No data available

aquatic invertebrates

Toxicity to algae : No data available

**Ingredients**

Toxicity to daphnia and other : No Data available

aquatic invertebrates

Persistence and degradability : No data available

Bioaccumulative potential : Low

Mobility in soil : No data available

**Other adverse effects :** No data available

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : The product should not be allowed to enter drains, water courses

 or the soil. Where possible recycling is preferred to disposal

 If recycling is not practicable, dispose of in

 compliance with local regulations. Dispose of wastes in an

 approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken

 to an approved waste handling site for recycling or disposal. Do

 not re-use empty containers. Dispose of in accordance with local,

 state, and federal regulations.

RCRA – Resource : D002 (Corrosive)

Conservation and Recovery

Authorization Act Hazardous

waste

**SECTION 14. TRANSPORT INFORMATION**

This shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land Transport (DOT)**

UN number : 1219

DOT Proper Shipping Name : Isopropanol, Isopropyl Alcohol

Class : 3

Packing Group : II

Environmentally hazardous : NO

**Sea Transport (IMDG/IMO)**

UN number : 1219

Description of the goods : Isopropanol (Isopropyl Alcohol)

Class : 3

Packing Group : II

Marine pollutant : YES

**SECTION 15. REGULATORY INFORMATION**

**EPCRA – Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**

Ingredients CAS-No. Component RQ (lbs) Calculated product RQ (lbs)

Isopropyl Alsohol 67-63-0 1000 4000

**SARA 304 Extremely Hazardous Substance Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards :**  Refer to Section 2

**SARA 302 :** No chemicals in this material are subject to the reporting

 requirements of SARA Title lll, Section 302.

**SARA 313 :** This material does not contain any chemical components with

 known CAS numbers that exceed the threshold (De Minimus)

 reporting levels established by SARA Title lll, Section 313.

**California Prop 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other

reproductive effects.

**The ingredients of this product are reported in the following inventories:**

**United States TSCA Inventory :**

On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**

All components of this product are on the Canadian DSL.

**SECTION 16. OTHER INFORMATION**

**Hazardous Material :**

**Information System (U.S.A)**

 **Health 1**

 **Flammability**  **3**

 **Physical Hazards** **0**

**NFPA:**

 **Flammability**

**3**

**1**

**Instability/**

**Reactivity**

**Health**

**1**

 **Special Hazard**

Issuing date : April 18, 2018

Version : 1.0

Prepared by : Specialty Chemicals & Systems

Notice to reader

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling,

Use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality

Specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.