

GROSPURT CANADA

Material Safety Data Sheet

Date 16/07/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **GS-4**

Brand: **GRO-SPURT**

-Company Name:

Grospurt Canada
74031 Hillcrest Park PO
3882 Main Street,
Vancouver, B.C. V5V5C8
Canada

Telephone: 1-844-616-1444

Fax: 1-604-326-1102

Emergency Phone number

1-604-818-3366

Website: www.grospurt.com

2. HAZARDS IDENTIFICATION

-WHMIS:

B-2 flammable liquid

D-28 toxic eye irritant



Signal word

Caution Flammable. Warning-Eye irritant.

WHMIS Classification:

Health hazard: 1

Fire Hazard: 3

Reactivity: 0

-Inhalation

Prolonged exposure to high concentrations of vapors may cause sore throat and headache, nausea and dizziness, which is temporary. Continued inhalation may result in unconsciousness.

-Skin

May cause discomfort, skin irritation, or rash unless treated properly.

-Eyes

Contact with the product may cause severe eye irritation, burning sensation, and redness.

-Ingestion This product causes irritation, a burning sensation of the mouth and throat and abdominal pain.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

-Chemical name and concentration:

Soluble concentrate containing 4% Gibberellic Acid pure (GA3)

-CAS number: 77-06-5 (active ingredient)

-Synonyms: Gibberellin GA3 - 4.0%

Isopropanol - 99.5%

-Formula: C₁₉H₂₂O₆

C₃H₈O

4. FIRST AID MEASURES

-General advice

Call a poison control center or call a doctor immediately for treatment advice. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

-If inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration or supplemental oxygen. Call a poison control center or doctor.

-In case of skin contact:

Wash off with soap and plenty of water. Remove contaminated clothing. Take care not to contaminate eyes. Call a poison control center or doctor.

-In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and call a poison control center or doctor.

-If swallowed:

Immediately contact a poison control center or doctor for treatment advice. Do not induce vomiting unless advised by medical personnel. Victim should drink milk, egg whites or large quantities of water. Never give anything by mouth to someone who is unconscious, having convulsions or unable to swallow.

5. FIRE-FIGHTING MEASURES

-Conditions of flammability

Flammable: Lower flammability limit: 2% (% by V) Upper flammability limit: 12% (% by V)

-Flashpoint

12 deg. C (54 deg. F)

-Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

-Special Fire fighting procedures

Firefighters must wear self-contained breathing apparatus (SCBA) and full protective equipment.

Containers not yet in flames but exposed to intense heat should be cooled with water sprays.

-Unusual fire and explosion hazards

Vapors are flammable and heavier than air. Drifting vapors may reach distant ignition sources and flash back. Use water spray to dissipate vapors.

6. ACCIDENTAL RELEASE MEASURES

-Personal precautions

In case of a large spill, immediately protect people evacuating all non-trained personnel and any general public. Isolate the area. Prevent exposure to all potential sources of ignition, such as lighted cigarettes, sparks, flames, etc. such releases should be responded to by trained personnel only, using pre-planned procedures. In the case of an incidental release, minimum Personal Protective Equipment must be worn (latex or rubber gloves and boots, goggles, or full face shield and coveralls). It is necessary to contain spill

into the smallest area possible by diking, scooping, enclosing, etc., using non-sparking tools: place liquid into an appropriate container and label it. If liquid is absorbed onto dry carrier such as dirt, or other absorbent material, then this material should be put in covered labeled containers and disposed of as dry waste in accordance with Federal, Provincial and local hazardous waste disposal regulations.

7. HANDLING AND STORAGE

-Precautions for safe handling

All personnel who handle this material should be trained to work with it safely. Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mists and use in a well-ventilated location. Wash thoroughly after handling.

-Conditions for safe storage

Store in a cool, dry place, away from direct sunlight, sources of intense heat or where freezing is possible. Store away from feed, clothing materials and living quarters. Inspect all containers before storage to ensure they are properly labeled and not damaged. Empty containers may contain residual liquid and/or vapors and should be handled with care. Keep containers tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

-Respiratory protection

As required by conditions. Use a NIOSH approved respirator with a vapor cartridge.

-Ventilation

General ventilation is usually adequate using explosion proof fans.

-Hand protection

Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

-Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

-Hygienic practices

As a general rule do not eat, drink, smoke chew gum or tobacco when handling chemicals. Wash thoroughly after handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

-Appearance

Physical state: liquid
Color: Clear to light-yellow liquid

-Safety data:

Melting point:	No applicable information available
Boiling range:	82-83 deg. C
Flash point:	13 deg. C (closed cup)
Vapor pressure:	33 (100%) (mm Hg at 20 deg. C)
Vapor density:	2.1 (100%) (Air=1.0)
Relative density:	0.78-0.79 g/cc
Water solubility:	Miscible in water
Odor:	Pleasant alcohol odor
Odor threshold:	No applicable information available
Evaporation rate:	1.5 (Butyl Acetate =1)
Flammability:	Flammable
Explosive Limits:	Lower explosive limit in air: 2.% (% by V) Upper explosive limit in air: 12.% (% by V)
Auto-ignition temperature:	425C

10. STABILITY AND REACTIVITY

-Reactivity

Stable under normal conditions

-Chemical stability

Stable in original containers under recommended storage conditions.

-Possibility of hazardous reactions

May react with strong oxidizers

-Conditions to avoid

Excessive heat and direct sunlight. Keep away from sources of ignition

-Materials to avoid

Strong oxidizing agents

-Hazardous decomposition products

None under normal conditions of storage and use. Toxic fumes (CO, CO₂) under fire conditions.

11. TOXICOLOGICAL INFORMATION

-Carcinogenicity Data:

The ingredient(s) of this product is (are) not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.

-Teratogenicity:

Isopropanol alcohol, when administered orally to rats and rabbits produces reduced fetal bodyweights in rats only at doses which result in treatment related to maternal deaths and produces no indication of fetal effects in rabbits, even at dose which results in significant maternal mortality. Isopropanol alcohol produces no evidence of developmental neurotoxicity.

12. ECOLOGICAL INFORMATION

-Environmental effects: Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds or rivers. Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, streams or public waterways. Block off drains and ditches.

-Persistence and Degradation:

Active ingredient is non-toxic and degrades rapidly under biological condition. No food chain concentration potential.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods: Dispose of product in compliance with all federal, provincial and local laws concerning health and environment.

-Empty containers

Empty containers may have residues (liquid and/or fumes) thus handle them with care. Do not grind, weld or perform similar operations on or near containers, nor expose them to intense heat, flames, sparks, static electricity or other sources of ignition. They may explode and cause bodily injury or death. Dispose of them properly according to regulations on empty containers in your locality or make available to a container recycling facility.

14. TRANSPORT INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

-PLACARD: Flammable Liquids

-IATA: UN1219 ISOPROPANOL Solution CLASS 3, PG 11

-IMO Proper shipping Name: UN1219, ISOPROPANOL Solution CLASS 3, PG11

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Chemical Name: GIBBERELIC ACID (active ingredient)

ISOPROPANOL ALCOHOL Solution: WHMIS B-2, D2B

-CANADIAN DSL INVENTORY: The components of this material are listed on the DSL Inventory.

16. OTHER INFORMATION

Further information

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Acutus Enterprises Inc. will not be liable for any damages, losses, injuries or consequential damages, which may result from the use of or reliance on any information, contained herein.