# SAFETY DATA SHEET



#### 1. Identification

**Product identifier SDAG-10, 95% VOL** 

Other means of identification

**Synonyms** Specially denatured alcohol, Ethanol denatured with acetone

Recommended use General purpose solvent.

Refer to the alcohol control authority in which the product is to be used - Canada Revenue Agency **Recommended restrictions** 

(Excise) in Canada, US Tax and Trade Bureau in the US, etc.

Manufacturer/Importer/Supplier/Distributor information

Greenfield Global Inc. Company name **Address** 6985 Financial Drive

Missisauga, Ontario L5N 0G3

Canada

**Telephone** (905) 790-7500

Website http://www.greenfield.com CHMETREC: 1-800-424-9300 **Emergency phone number** 

#### 2. Hazard identification

Flammable liquids Physical hazards Category 2 **Health hazards** Serious eye damage/eye irritation Category 2

Label elements



Signal word Danger

**Hazard statement** Highly flammable liquid and vapour. Causes serious eye irritation.

**Precautionary statement** 

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

> Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN Response

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use water fog, alcohol-resistant foam, dry chemical powder, carbon dioxide to extinguish.

**Storage** Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Ethanol		64-17-5	84.2
Acetone		67-64-1	8.8
Other components below reportable levels			7

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical Skin contact

attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Specific methods General fire hazards In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapour.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk, Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground.

# **Environmental precautions** 7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occ

US. ACGIH Threshold Limit Values Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Alberta OELs (Occupation	nal Health & Safety Code. Sche	dule 1. Table 2)
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	1800 mg/m3
		750 ppm
	TWA	1200 mg/m3
		500 ppm
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
Canada. British Columbia OELs. (0 Safety Regulation 296/97, as amen		or Chemical Substances, Occupational Health and
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
,	TWA	250 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Manitoba OELs (Reg. 217	/2006 The Workplace Safety A	• •
Components	Type	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Ontario OELs. (Control of	Exposure to Biological or Che	mical Agents)
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Quebec OELs. (Ministry o Components	f Labor - Regulation respecting Type	g occupational health and safety) Value
Acetone (CAS 67-64-1)	STEL	2380 mg/m3
,	-	1000 ppm
	TWA	1190 mg/m3
		500 ppm
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3
	11111	1000 ppm
Canada. Saskatchewan OELs (Occ		egulations, 1996, Table 21)
Components	Туре	Value
Acetone (CAS 67-64-1)	15 minute	750 ppm
	8 hour	500 ppm

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Components Type Value

8 hour 1000 ppm

#### **Biological limit values**

<sup>\* -</sup> For sampling details, please see the source document.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Other Wear appropriate chemical resistant clothing.

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Physical stateLiquid.FormLiquid.ColourColourless.

**Odour** Primarily alcohol, and secondarily ketones.

Odour threshold Not available. pH Not applicable.

Melting point/freezing point -100 °C (-148 °F) (Approximate)

Initial boiling point and boiling

range

73 - 78.6 °C (163.4 - 173.48 °F) (Approximate)

Flash point 8 °C (46.4 °F) Tag closed cup (ASTM D-56)

Evaporation rate 2 (Butyl acetate = 1)
Flammability (solid, gas) Not applicable.

Elemmobility limit lower

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

(%)

Not available.

Vapour pressure Not available.
Vapour density 1.61 (Air=1)

Upper/lower flammability or explosive limits

Relative density 0.8084 (20 °C (68 °F))

Solubility(ies)

Solubility (water) Complete

Partition coefficient 0.032 (Approximate)

(n-octanol/water)

**Auto-ignition temperature** 422 °C (791.6 °F) (Approximate)

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Dynamic viscosity 1.35 cP (20 °C (68 °F))

**Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

Percent volatile 100

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidising agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Coughing.

## Information on toxicological effects

Respiratory sensitisation

**Acute toxicity** 

Components	Species	Test Results	
Acetone (CAS 67-64-1)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 15700 mg/kg, 24 Hours	
Inhalation			
Vapour			
LC50	Rat	76 mg/l, 4 Hours	
Oral			
LD50	Rat	5800 mg/kg	
Ethanol (CAS 64-17-5)			
<u>Acute</u>			
Inhalation			
Vapour			
LC50	Rat	117 - 125 mg/l, 4 Hours	
Oral			
LD50	Rat	10470 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitisat	tion		

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Not a respiratory sensitiser.

**Skin sensitisation** This product is not expected to cause skin sensitisation.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

**ACGIH Carcinogens** 

Acetone (CAS 67-64-1)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Acetone (CAS 67-64-1) Not classifiable as a human carcinogen.

Ethanol (CAS 64-17-5) Confirmed animal carcinogen with unknown relevance to humans.

Reproductive toxicity Possible reproductive hazard.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Results	Species		Components
			Acetone (CAS 67-64-1)
			Aquatic
			Acute
mg/l, 48 Hours	Daphnia pulex	LC50	Crustacea
mg/l, 96 Hours	Pimephales promelas	LC50	Fish
			Chronic
mg/l, 21 days	Daphnia magna	NOEC	Crustacea
			Ethanol (CAS 64-17-5)
			Aquatic
		=0.0	Acute
mg/l, 72 hours	Freshwater algae	EC10	Algae
mg/l, 72 hours	Freshwater algae	EC50	
mg/l	Marine water algae		
0 mg/l, 24 hours	Freshwater fish	LC50	Fish
mg/l, 48 hours	Freshwater invertebrate	EC50	Invertebrate
mg/l, 48 hours	Marine water invertebrate		
mg/l, 7 days	Lemna minor	EC50	Other
			Chronic
mg/l	Marine water algae	NOEC	Algae
mg/l	Freshwater fish	NOEC	Fish
ng/l, 10 days	Freshwater invertebrate	NOEC	Invertebrate
g/l, 96 hours	Marine water invertebrate		
mg/l, 7 days	Lemna minor	NOEC	Other
			Other
			Acute
mg/l, 4 hours	Micro-organisms	LC50	Micro-organisms
			Terrestrial
			Acute
ng/kg dw	Terrestrial plant	EC50	Plant
	be readily biodegradable.	Expected to	sistence and degradability
	•		sistence and degradability

#### Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

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Acetone (CAS 67-64-1) -0.24

**Mobility in soil** Expected to be highly mobile in soil.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

# 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

**TDG** 

UN number UN1987

UN proper shipping name ALCOHOLS, N.O.S. (Ethanol)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

**UN number** UN1987

**UN proper shipping name** A

Transport hazard class(es)

Alcohols, n.o.s. (Ethanol, Acetone)

Class 3
Subsidiary risk Packing group II
Environmental hazards No.
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number UN1987

**UN proper shipping name** ALCOHOLS, N.O.S. (Ethanol, Acetone)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group || Environmental hazards

Marine pollutant No.

EmS F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not applicable.

# 15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

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# Canada. Excluded VOCs. Guidelines for Volatile Organic Compounds in Consumer Products. CEPA 1999. Environment Canada, as amended

Acetone (CAS 67-64-1)

#### **Controlled Drugs and Substances Act**

Not regulated.

# Export Control List (CEPA 1999, Schedule 3)

Not listed.

#### **Greenhouse Gases**

Not listed.

#### Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Acetone (CAS 67-64-1)

Precursor Control Regulations

Acetone (CAS 67-64-1) Class B

Inventory name

#### International regulations

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

#### **Kyoto Protocol**

Not applicable.

#### **Montreal Protocol**

Not applicable.

# **Basel Convention**

Not applicable.

#### **International Inventories**

Australia

Country(s) or region

Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

Australian Inventory of Industrial Chemicals (AICIS)

On inventory (yes/no)\*

Yes

8/9

Taiwan Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

# 16. Other information

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Revision date 14-December-2023

Version No. 02

<sup>(</sup>PICCS)

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **Disclaimer**

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