



SAFETY DATA SHEET

Issuing Date No data available

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Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name BIRSCH CLEAR IMAGE

Other means of identification

Product Code(s) 1000004424

Synonyms N/A

Recommended use of the chemical and restrictions on use

Recommended Use Glass Cleaner

Uses advised against No Information Available

Supplier's details

Supplier Address

Birsch Industries
476 Viking Drive
Virginia Beach, VA. 23452
TEL: 757-622-0355

Emergency telephone number

Emergency Telephone Number CHEM-TEL, INC.
24 Hour Emergency Contact 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

FLAMMABLE AEROSOLS – Category 1
SPECIFIC TARGET ORGAN TOXICITY: SINGLE EXPOSURE – Category 1

GHS Label elements, including precautionary statements

Signal Word DANGER

Hazard Statements

- Extremely flammable aerosol
- May be fatal if swallowed and enters airways
- May cause an allergic skin reaction

Appearance Cloudy White**Physical State** Gas/Aerosol**Odor** Citrus Scent**Symbol:****Precautionary Statements****Prevention**

Keep away from heat/sparks/open flames/hot surfaces. No Smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Response

If exposed: Call a poison center/doctor. Specific treatment (see this label).

Storage

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Chemical Name	CAS-No	Weight %	Notes
Butane	106-97-8	2.5 – 10	*
Methanol	67-56-1	2.5 – 10	*
Ethyl Alcohol	64-17-5	1 – 2.5	*
Propane	74-98-6	1 – 2.5	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact Call a physician or Poison Center immediately.

Skin Contact Call a physician or Poison Center immediately.

Inhalation If symptoms develop move victim to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician or Poison Center immediately. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Indication of immediate medical attention and special treatment needed, if necessary

Most Important Symptoms Direct contact with eyes may cause temporary irritation.

Indication of Immediate Medical Attention Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General Information Immediate medical attention is required. If you feel unwell, seek medical advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Not available

Unsuitable Extinguishing Media

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

Specific Hazards Arising from the Chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special Protective Equipment and Precautions for Firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-Fighting Equipment/Instructions

Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific Methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General Fire Hazards

Extremely flammable aerosol

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. 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 Clean Up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination.

Environmental Precautions

Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Precautions for safe handling

Will ignite if exposed to intensive heat or open air. Pressurized container. Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not breathe gas. Do not get this material in contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate, or crush. Do not handle or store near an open flame, heat or other sources or ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep container dry. Refrigeration recommended. Keep away from food, drink and animal feedingstuffs. Store away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

	Components	Type	Value
US OSHA Table Z-1 Limits for Air Contaminants	Propane (CAS 74-98-6)	PEL	1800 mg/m ³ 1000 ppm
	Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m ³ 1000 ppm
	Methanol (CAS 64-56-1)	PEL	260 mg/m ³ 200ppm
US ACGIH Threshold Limit Values	Butane (CAS 106-97-8)	STEL	1000 ppm
	Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
	Methanol (CAS 67-56-1)	STEL TWA	250 ppm 200 ppm
US NIOSH: Pocket Guide to Chemical Hazards	Butane (CAS 106-97-8)	TWA	1900 mg/m ³ 800 ppm
	Ethyl Alcohol (CAS 64-17-5)	TWA	1900mg/m ³ 1000 ppm
	Methanol (CAS 67-56-1)	STEL	325 mg/m ³ 250 ppm
		TWA	260 mg/m ³ 200 ppm
	Propane (CAS 74-98-6)	TWA	1800 mg/m ³ 1000 ppm

Biological Limit Values No biological exposure limits noted.

Appropriate Engineering Controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilations, 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.

Individual protection measures, such as personal protective equipment

Eye & Face Protection Wear tight-fitting goggles or face shield.

Hand & Skin Protection Wear appropriate chemical resistant gloves.

Respiratory Protection If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.

Thermal Hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene Measures Do not get in eyes. When using, do not smoke. Do not get this material in contact with skin. 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 containants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Gas-Aerosol	Appearance	Not available
Odor	Not available	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>
pH	Not available
Melting Point/Range	No data available
Boiling Point/Boiling Range	212°F (100°C)
Flash Point	-156°F (-104.4°C)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limits in Air	
upper flammability limit	No data available
lower flammability limit	No data available
Vapor Pressure	23.01 psig @ 70F
Vapor Density	No data available
Relative Density	No data available
Specific Gravity	0.95 – 0.97
Water Solubility	No data available
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Flammable Properties	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

10. STABILITY AND REACTIVITY

Stability

The product is stable

Possibility of hazardous reactions

No dangerous reaction known under normal conditions.

Conditions to avoid

Exposure to air. Heat, flames and spark. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Oxygen. Do not mix with other chemicals.

Hazardous decomposition products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	May cause damage to organs by inhalation. Prolonged inhalation may be harmful.
Skin Contact	No adverse effects due to skin contact are expected.
Eye Contact	Direct contact with eyes may cause temporary irritation.
Symptoms	Direct contact with eyes may cause temporary irritation.

Information on Toxicological Effects

Skin Corrosion/Irritation	Prolonged skin contact may cause temporary irritation.
Serious Eye Damage/Eye Irritation	Direct contact with eyes may cause temporary irritation.
Respiratory Sensitization	This product is not expected to cause respiratory sensitization.
Skin Sensitization	This product is not expected to cause skin sensitization.
Germ Cell Mutagenicity	No data available
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive Toxicity	This product is not expected to cause reproductive or developmental effects.
Specific Target Organ Toxicity Single Exposure	Not applicable
Specific Target Organ Toxicity Repeated Exposure	Respiratory system. Skin. Central nervous system. Eyes. Gastrointestinal tract.
Aspiration Hazard	Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ectotoxicity	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.
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility In Soil	No data available
Other Adverse Effects	No other adverse environmental effects are expected from this product.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions	Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. 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	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.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

UN Number: UN1950
 UN Proper Shipping Name: Aerosols, flammable, (each not exceeding 1 L capacity)
 Transport Hazard Class: 2.1
 Packing Group: Not applicable
 Special Provisions: N82
 Packaging Exceptions 306

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity – ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/2020 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

15. REGULATORY INFORMATION

U.S. Federal Regulations

This product is a U.S. EPA registered pesticide.
 This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard – Yes
	Delayed Hazard – No
	Fire Hazard – Yes
	Pressure Hazard – No
	Reactivity Hazard - No

SARA 302 Extremely Hazardous Substance	N/A
SARA 311/312 Hazardous Chemical	N/A

SARA 313 (TRI Reporting) Methanol (CAS 67-56-1): % by wt – 2.5-10
 1,4-Dioxane (CAS 123-91-1): % by wt - .01-.1
 Safrole (CAS 94-59-7): % by wt - .01-.1

Clean Air Act (CAA)

Section 112 Hazardous Air Pollutants Methanol (CAS 67-56-1)

Section 112r Accidental Release Prevention Butane (CAS 106-97-8)
 Propane (CAS 74-98-6)

CERCLA (40 CFR 302.4)

Methanol (CAS 67-56-1)

US OSHA Specifically Regulated Substance (29 CFR 1910.1001-1050)

Not Listed

Safe Water Drinking Act (SDWA)

Not Regulated

California Proposition 65

This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm:

1,4-Dioxane (CAS 123-91-1)

Safrole (CAS 94-59-7)

Methanol (CAS 67-56-1)

US State Regulations

	Massachusetts	New Jersey	Pennsylvania	Rhode Island
Butane (CAS 106-97-8)	X	X	X	X
Propane (CAS 74-98-6)	X	X	X	X
Ethyl Alcohol (CAS 64-17-5)	X	X	X	
Methanol (CAS 67-56-1)	X	X	X	X

16. OTHER INFORMATION

Prepared By Birsch Industries
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 TEL: 757-622-0355

Issuing Date No information available

Revision Date 1-June 2015

Revision Note N/A

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet