

SAFETY DATA SHEET

1. Identification

Product identifier Rhino Blast Graffiti Remover

Other means of identification None
Recommended use Cleaner
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name
Address
Graffiti Solutions Canada
552 St Thomas Rang
Embrun, ON K0A 1W0

Canada

 Telephone
 Phone:
 613-838-5842

 Phone:
 866-906-9273

e-mail sales@graffitisolutionscanada.com

Emergency phone number CANUTEC: 613-996-6666

Supplier See above.

2. Hazard identification

Physical hazardsFlammable liquidsCategory 4Health hazardsSkin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Germ cell mutagenicityCategory 1

Environmental hazards Not classified.

Label elements





Signal word Danger

Hazard statement Combustible liquid.

Causes severe skin burns and eye damage.

May cause genetic defects.

Precautionary statement

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

Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapour. Wash thoroughly after handling. Obtain special instructions before use. Do not handle

until all safety precautions have been read and understood.

Response In case of fire: Use appropriate media to extinguish.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/doctor. Specific treatment (see information on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Storage Store in a well-ventilated place. Store locked up.

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

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Chemical name	Common name and synonyms	CAS number	%	
Aryl alcohol		HMIRA# 8507	56	
Potassium hydroxide		1310-58-3	8	
Monoethanolamine		141-43-5	4	
Ethanol		64-17-5	0.1	

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

Composition comments

This product has been granted a trade secret exemption.

The decision date associated with this trade exemption is August 9, 2013.

4. First-aid measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

Skin contact IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash

contaminated clothing before reuse. Immediately call a POISON CENTER/doctor. Specific

treatment (see information on this label).

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

CENTER/doctor.

Most important symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

Carbon dioxide. Alcohol foam. Water spray. Water Fog. Dry chemical powder.

Specific hazards arising from the chemical

The product is combustible, and heating may generate vapours which may form explosive vapour/air mixtures. During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulphur.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting equipment/instructions Specific methods

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out.

General fire hazards

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

Combustible liquid.

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 breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.

Methods and materials for containment and cleaning up

Stop leak if you can do so without risk. Use water spray to reduce vapours or divert vapour cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

Environmental precautions

Advise authorities if product has penetrated drains, sewers or water pipes. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Do not breathe mist or vapour. Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in a closed container away from incompatible materials. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Keep out of reach of children. Do not store at temperatures above 120°F (49°C).

8. Exposure controls/Personal protection

Occupational exposure limits

US. ACGIH	Threshold	Limit Values
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Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3 1000 ppm	
Monoethanolamine (CAS 141-43-5)	STEL	15 mg/m3 6 ppm	
	TWA	7.5 mg/m3 3 ppm	
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Canada. Manitoba OLLS (Reg. 21	1/2000, The Horkplace Galety	And ricular Act,	
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	

Components		Type	Value
Potassium hydroxide (CAS 1310-58-3)		Ceiling	2 mg/m3
Canada. Ontario OELs. (Co	ntrol of Exposu	_	
Components Ethanal (CAS 64 17 5)		Type	Value
Ethanol (CAS 64-17-5)		STEL	1000 ppm
Monoethanolamine (CAS 141-43-5)		STEL	6 ppm
		TWA	3 ppm
Potassium hydroxide (CAS 1310-58-3)		Ceiling	2 mg/m3
Canada. Quebec OELs. (MicComponents	nistry of Labor	- Regulation Respectin Type	g the Quality of the Work Environment) Value
Ethanol (CAS 64-17-5)		TWA	1880 mg/m3
			1000 ppm
Monoethanolamine (CAS 141-43-5)		STEL	15 mg/m3
,			6 ppm
		TWA	7.5 mg/m3
			3 ppm
Potassium hydroxide (CAS 1310-58-3)		Ceiling	2 mg/m3
Canada. Saskatchewan OE	Ls (Occupation	al Health and Safety Re	egulations, 1996, Table 21)
Components		Туре	Value
Potassium hydroxide (CAS 1310-58-3)		Ceiling	2 mg/m3
ogical limit values	No biological	exposure limits noted for	the ingredient(s).
osure guidelines	Aryl alcohol h	as an AIHA WEEL expos	sure limit of 10ppm (8hr TWA).
propriate engineering trols	should be mar or other engin	tched to conditions. If ap seering controls to mainta	air changes per hour) should be used. Ventilation rates plicable, use process enclosures, local exhaust ventilatio ain airborne levels below recommended exposure limits. hed, maintain airborne levels to an acceptable level.
vidual protection measures	, such as perso	nal protective equipme	nt
Eye/face protection	Wear chemica	al goggles.	
Skin protection			
Hand protection	Rubber gloves	s. Confirm with a reputal	ble supplier first.
Other	Wear appropr	iate chemical resistant c	othing. As required by employer code.
Respiratory protection	Respirator she professional fe	ould be selected by and ollowing requirements for	be exceeded, use an approved NIOSH respirator. used under the direction of a trained health and safety und in OSHA's respirator standard (29 CFR 1910.134), for respiratory protection (Z88.2).
Thermal hazards	Not applicable	9.	
eral hygiene			g do not eat or drink. Always observe good personal
siderations	hygiene meas	sures, such as washing a	fter handling the material and before eating, drinking, and g and protective equipment to remove contaminants.
	9. Pr	nysical and chemic	al properties
earance	White		
sical state	Liquid.		
m	gel		
our	White.		
our	faint aromatic		

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Not available.

-24 °C (-11.2 °F)

Not available.

11.6

range

Odour threshold

Melting point/freezing point

Initial boiling point and boiling

92.0 °C (197.6 °F) TCC Flash point

Not available **Evaporation Rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper (%)

Not available

Not available

Explosive limit - lower (%) Not available.

Explosive limit - upper

(%)

Not available.

Vapour pressure Not available Not available Vapour density Not available. Relative density

Solubility(ies)

Not available Solubility (Water) **Partition coefficient** Not available

(n-octanol/water)

Auto-ignition temperature Not available Not available. **Decomposition temperature** Not available. **Viscosity**

Other information

Explosive properties Not explosive. Combustible IIIA Flash point class Not oxidising Oxidizing properties Not available Specific gravity

10. Stability and reactivity

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability Stable under recommended storage conditions. Hazardous polymerisation does not occur.

Possibility of hazardous reactions

Conditions to avoid

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

flash point. This product may react with oxidizing agents. Do not mix with other chemicals.

Incompatible materials Oxidising agents. Acids.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulphur.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. Excessive intentional inhalation may cause respiratory tract

irritation and central nervous system effects (headache, dizziness).

Causes severe skin burns. Skin contact Causes serious eye damage. Eye contact

Harmful if swallowed. Causes digestive tract burns. Acute oral exposure to aryl alcohol affects the Ingestion

nervous system (excitability, lethargy, incoordination, hindlimb paralysis, convulsions, prostration

and dyspnea).

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity

Components **Test results Species**

Aryl alcohol (CAS HMIRA# 8507)

Acute Dermai

LD50 Rabbit 2000 mg/kg

Components	Species	Test results
Inhalation		
LC50	Rat	8.8 mg/l/4h
Oral		4500 #
LD50	Mouse	1580 mg/kg
	Rabbit	1940 mg/kg
	Rat	1230 mg/kg
Ethanol (CAS 64-17-5)		
Acute Dermal		
LD50	Rabbit	> 15800 mg/kg
Inhalation		0 0
LC50	Mouse	39 mg/L, 4 Hours
	Rat	31623 ppm, 4 Hours
		20000 ppm, 10 Hours
		64.1 mg/l/4h
Oral		-
LD50	Dog	5500 mg/kg
	Guinea pig	5600 mg/kg
	Mouse	3450 mg/kg
	Rat	7060 mg/kg
Monoethanolamine (CAS 141-43	-5)	
Acute	•	
Dermal		
LD50	Rabbit	1018 mg/kg
		1000 mg/kg
Inhalation		
LC50	Mouse	1210 mg/m3, 4 Hours
		484 ppm, 4 Hours
		1.2 mg/L, 4 Hours
Oral	Cuinas nin	C20
LD50	Guinea pig	620 mg/kg
	Mouse	1475 mg/kg
		700 mg/kg
	Rat	1970 mg/kg
		1720 mg/kg
Potassium hydroxide (CAS 1310-	-58-3)	
Acute Inhalation		
LC50	Not available	
Oral		
LD50	Rat	214 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

Monoethanolamine (CAS 141-43-5) Irritant Potassium hydroxide (CAS 1310-58-3) Irritant

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation Aryl alcohol has caused skin sensitization in workers and animals.

Germ cell mutagenicity May cause genetic defects.

Aryl alcohol has caused an increase in chromosomal aberrations in Chinese hamster ovary cells. Mutagenic effects were observed in somatic and reproductive cells of live animals (rats and mice)

exposed to high oral doses of ethanol.

Carcinogenicity Not available.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazardNot an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. This product may be harmful if it is absorbed through the

skin.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Based on published data, if contact is repeated and prolonged, monoethanolamine may cause

liver and kidney damage. These effects have not been observed in humans.

Further information Not available

12. Ecological information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicological data

Components		Species	Test results
Aryl alcohol (CAS HMIRA#	8507)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	10 mg/L, 96 hours
Ethanol (CAS 64-17-5)			
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/L, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/L, 96 hours

Monoethanolamine (CAS 141-43-5)

Algae IC50 Algae 15 mg/L, 72 Hours
Crustacea EC50 Daphnia 65 mg/L, 48 Hours

Aquatic

Fish LC50 Rainbow trout, donaldson trout 114 - 196 mg/L, 96 hours

(Oncorhynchus mykiss)

Potassium hydroxide (CAS 1310-58-3)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 80 mg/L, 96 hours

Persistence and degradability Bioaccumulative potential

No data is available on the degradability of this product.

Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

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13. Disposal considerations

Disposal instructionsCollect 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

Hazardous waste code

Dispose in accordance with all applicable regulations.

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

General Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the

Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of

the product will appear below.

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1760

Proper shipping name CORROSIVE LIQUID, N.O.S.

Technical name Potassium hydroxide

Hazard class 8
Packing group II
Special provisions 16

TDG



15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS status Controlled

Inventory Status

Country(s) or regionInventory NameOn Inventory (Yes/No)*CanadaDomestic Substances List (DSL)Yes

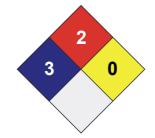
Canada Non-Domestic Substances List (NDSL) No

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

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH *	3
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	x



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sion #

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Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Prepared by

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