

SAFEGUARD 745 SUPER VANDAL-X GRAFFITI REMOVER

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
CAS No.	Mixture
Trade Name	SUPER VANDAL-X GRAFFITI REMOVER
Product Code	10-5569

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Cleaner
Uses Advised Against	None

Emergency telephone number

Emergency Phone No.	Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Flam. Aerosol 1; Liquefied gas; Asp. Tox. 1; STOT SE 1; STOT SE 3; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B

Label elements

Hazard Symbol



DANGER

Signal word(s)

Hazard Statement(s)

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
May cause drowsiness or dizziness.
May cause respiratory irritation.
Causes skin irritation. Causes serious eye irritation.
Causes damage to organs: Optic nerve, Central nervous system
May be fatal if swallowed and enters airways.
May cause an allergic skin reaction.

Precautionary Statement(s)

Do not breathe dust/fume/gas/mist/vapours/spray.
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/eye protection.
Wash hands and exposed skin thoroughly after handling.

Other hazards:

Contaminated work clothing must not be allowed out of the workplace.
Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Additional Information:

None

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Acetone	30 - 40	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Xylene**	25 - 30	1330-20-7	Flam. Liq. 3; H226 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Asp. Tox. 1; H304 STOT SE 3; H335 Aquatic Acute 2; H401 Aquatic Chronic 3; H412
4-chloro- α,α,α -trifluorotoluene	10 - 15	98-56-6	Flam. Liq. 3; H226 Skin Sens. 1B; H317 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Propane	5 - 10	74-98-6	Flam. Gas 1; H220 Liquefied gas; H280
Butane	5 - 10	106-97-8	Flam. Gas 1; H220 Liquefied gas; H280
Polyethylene glycol octylphenyl ether	1 - 5	9036-19-5	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412
Methanol	1 - 2	67-56-1	Flam. Liq. 2; H225 Acute Tox. 3; H301, H311, H331 STOT SE 1; H370
Parafin waxes and Petroleum waxes	1 - 5	8002-74-2	Not classified as dangerous for supply/use.
Silica gel	< 1	112926-00-8	Not classified as dangerous for supply/use.

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.:

**Contains: Ethylbenzene (CAS No. 100-41-4) \leq 9.8 %; Toluene (CAS No. 108-88-3) < 0.28;

* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation

Move person to fresh air. If breathing is labored, administer oxygen. If symptoms persist, obtain medical attention.

Skin Contact

Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye Contact

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.

Ingestion

Do not give anything by mouth to an unconscious person. Seek medical treatment. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.

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Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance or mixture

Contains gas under pressure; may explode if heated.

Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid breathing vapors.

Environmental precautions

Prevent liquid entering sewers, basements and work pits.

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

Reference to other sections

None

Additional Information

None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

-Storage temperature Keep in a cool, well ventilated place. Store at temperatures not exceeding 50 °C / 122 °F.
-Incompatible materials This product should be stored away from sources of strong heat or oxidizing chemicals.

Specific end use(s)

Cleaner

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Acetone	67-64-1	1000 ppm	250 ppm	-----	500 ppm	-----
Xylene	1330-20-7	100 ppm	100 ppm	----	150 ppm	----
Propane	74-98-6	1000 ppm	Aspyx.#	----	----	#
n-Butane	106-97-8	-----	250 ppm	-----	-----	-----
Methanol	67-56-1	200 ppm	200 ppm	----	250 ppm	None

#Assure minimum oxygen content of work atmosphere.

Recommended monitoring method

NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C); NIOSH 1300 (Ketones I); OSHA 1002 (Xylenes); NIOSH 2000 (Methanol)

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Exposure controls

Appropriate engineering controls

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

Personal protection equipment

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data. Use gloves only once.



Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.



Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Prevent release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Aerosol
Color.	Not available
Odor	Not available
Odor Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available
Boiling point/boiling range (°C):	Not available
Flash Point (°C)	-104 (Propane)
Evaporation Rate	Not available
Flammability (solid, gas)	Extremely flammable
Explosive Limit Ranges	2.1% - 9.5% v/v (Propane)
Vapor pressure (Pascal)	ca. 95×10^4 (Propane)
Vapor Density (Air=1)	ca. 1.56 @ 0°C (Propane)
Density (g/ml)	Not available
Solubility (Water)	Not available
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	450 (Propane)
Decomposition Temperature (°C)	Not available
Kinematic Viscosity	<20 cSt
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Avoid contact with heat and ignition sources.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition product(s)	Carbon monoxide, Carbon dioxide, Acrid smoke

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SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Xylenes (CAS No.1330-20-7)

Acute toxicity

Oral LD50 = 3520 mg/kg (rat)
 Dermal LD50 >5000 mg/kg (rabbit)
 Inhalation LC50 = 27.6 mg/L (4 hour(s)) (rat) - Vapours may cause drowsiness and dizziness. May cause respiratory irritation.

Irritation / Corrosivity

Causes eye irritation. Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Sensitisation

It is not a skin sensitiser.

Repeated dose toxicity

Oral NOAEL = 900 mg/kg/day (rat) (90-days)
 Inhalation NOAEL ≥ 19,000 ppm (rat)

Carcinogenicity

It is unlikely to present a carcinogenic hazard to man.*

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity

Negative

Toxicity for reproduction

Negative

Other information

* Contains: Toluene (CAS No. 108-88-3) Suspected of damaging fertility or the unborn child.and Ethylbenzene (CAS# 100-41-4). A3 - Confirmed Animal Carcinogen with unknown relevance to humans (ACGIH®). IARC Group 2B - Possibly carcinogenic to humans.

Propane (CAS# 74-98-6):

Acute toxicity

Inhalation: LC50 = 1237 mg/L (2-hr, mouse, gas)

Irritation/Corrosivity

No evidence of irritant effects from normal handling and use.

Sensitisation

It is not a skin sensitiser.

Repeated dose toxicity

NOAEC: ≥19678 mg/m3 (28-day, rat, Systemic effects)
 LOAEC: 21641 mg/m3 (28-day, rat, effects: Body weight)

Carcinogenicity

No data. It is unlikely to present a carcinogenic hazard to man.

Mutagenicity

There is no evidence of mutagenic potential.

Reproductive toxicity

None anticipated

Acetone (CAS No. 67-64-1)

Acute toxicity

Oral LD50 = 5800 mg/kg (rat)
 Dermal LD50 >15800 mg/kg (rabbit)
 Inhalation LC50 76 mg/L (4 hour(s)) (rat) - Vapours may cause drowsiness and dizziness.

Irritation / Corrosivity

Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.

Sensitisation

It is not a skin sensitiser.

Repeated dose toxicity

Oral NOAEL = 900 mg/kg/day (rat) (90-days)
 Inhalation NOAEL ≥ 19,000 ppm (rat)

Carcinogenicity

It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity

Negative

Toxicity for reproduction

Negative

Other information

None known.

4-chloro- α,α,α -trifluorotoluene (CAS No. 98-56-6):

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Acute toxicity (calculated / estimated)

Oral: LD50 >5000 mg/kg-bw
 Dermal: LD50 >2000 mg/kg-bw
 Inhalation: LC0 ≥5.28 mg/l (Vapor), 4-hr. rat - May cause drowsiness or dizziness.

Irritation/Corrosivity

Not Irritating to eyes or skin.

Sensitization

May cause sensitization by skin contact.

Repeated dose toxicity

Oral: NOEL 50 mg/kg
 Inhalation: NOEL 50 ppm

Carcinogenicity

It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity

Not to be expected

Reproductive toxicity

NOEL ≥ 45 mg/kg

Methanol (CAS# 67-56-1):

Acute toxicity*

LD50 (oral, monkey): 7000 mg/kg-bw
 LD0 (oral, rat): ≥ 2528 mg/kg-bw
 LC50 (inhal., cat, 6-hours): 43.68 mg/L
 LC50 (inhal., monkey, 4-hours): 52 mg/L
 Ingestion may damage the optic nerve.

Irritation / Corrosivity

May cause dizziness and drowsiness
 May cause eye irritation.

Sensitization

It is not a skin sensitizer.

Repeated dose toxicity

NOAEC (2-yr. inhal., mouse): ≥ 1.3 mg/L

Mutagenicity

Negative

Carcinogenicity

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Toxicity for reproduction

Negative.

Other information

* ATE (oral) = 100 mg/kg
 * ATE (dermal) = 300 mg/kg
 * ATE (inhalation) = 3 mg/L

*ATE = Acute Toxicity Estimate for purposes of classification

SECTION 12: ECOLOGICAL INFORMATION

4-chloro- α,α -trifluorotoluene (CAS No. 98-56-6):

Ecotoxicity

Short term

LC50 (48 hour): 3 mg/L (fish)
 IC50 (48 hour): 2.6 mg/L (crustacea)
 EC50 (72 hour): >0.41 mg/L (algae)

Long Term

Not available

Persistence and degradability

The product is not biodegradable.

Bioaccumulative potential

The product has moderate potential for bioaccumulation.

Mobility in soil

The product has low mobility in soil.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

None known.

Xylene (CAS No. 1330-20-7):

Ecotoxicity

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Acute toxicity	LC50 (96 hour) = 2.6 mg/l (<i>Oncorhynchus mykiss</i>) IC50 (24 hour(s)) = 1 mg/l (<i>Daphnia magna</i>) EC50 (73 hour(s)) = 1.9 mg/l (<i>Pseudokirchnerella subcapitata</i>)
Long Term Toxicity	NOEC (56 days) > 1.3 mg/l (<i>Oncorhynchus mykiss</i>) NOEC (7 days) 1.17 mg/l (<i>Ceriodaphnia dubia</i>) NOEC (73 hours) 1.9 mg/l (<i>Pseudokirchnerella subcapitata</i>)
Persistence and degradability	Readily biodegradable.
Bioaccumulative potential	The substance has no potential for bioaccumulation.
Mobility in soil	No data.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
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SECTION 14: TRANSPORT INFORMATION

	Land transport <u>U.S. DOT</u>	Sea transport <u>(IMDG)</u>	Air transport <u>(ICAO/IATA)</u>
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Acetone	67-64-1	30 - 40	5000
Xylene	1330-20-7	25 - 30	100
Methanol	67-56-1	1 - 2	5000

SARA 311/312 - Hazard Categories:

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Xylene	1330-20-7	25 - 30
Methanol	67-56-1	1 - 2

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

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Chemical Name	CAS No.	Type of Toxicity
Toluene	108-88-3	Developmental, Female Reproductive
Ethyl benzene	100-41-4	Cancer
Cumene*	98-82-8	Cancer
Benzene*	71-43-2	Cancer

* Trace to none

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: March 7, 2017

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H220: Extremely flammable gas.
- H225: Highly flammable liquid and vapor.
- H226: Flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H301: Toxic if swallowed.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H311: Toxic in contact with skin.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H331: Toxic if inhaled.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H370: Causes damage to organs.
- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects.

Training advice: None.

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