GRUMBACHER #545 DAMAR VARNISH GLOSS

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

01560-1010

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
CAS No.	Mixture
Trade Name	GRUMBACHER #545 DAMAR VARNISH GLOSS
Product Code	10-5355

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

Identified Use(s)	Coating Product - Arts & Crafts
Uses Advised Against	None
Company Identification	Chartpak, Inc. One River Road Leeds, MA 01053
Telephone	800-628-1910
Fax	
E-Mail (competent person)	INFO@Chartpak.com

Emergency telephone number

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

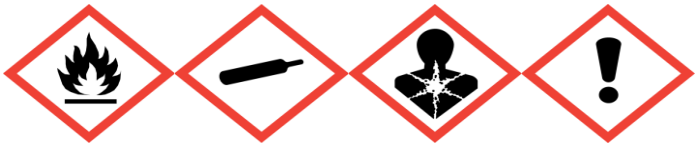
SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) — Flam. Aerosol 1; Liquefied gas; Skin Sens. 1; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; STOT RE 1; Asp. Tox. 1

Label elements

Hazard Symbol



Signal word(s): **DANGER**

Hazard Statement(s):

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Wash hands and exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Use only outdoors or in a well-ventilated area.

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Avoid contact with skin and eyes. Avoid breathing vapors.

Protect from sunlight and do not expose to temperatures exceeding 50 ºC/122 ºF.

Other hazards Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Butane	10 - 15	106-97-8	Flam. Gas 1; H220 Liquefied gas; H280
Propane	10 - 15	74-98-6	Flam. Gas 1; H220 Liquefied gas; H280
Turpentine	20-30	9005-90-7 / 8006-64-2	Flam. Liq. 2;H225 Acute Tox. 4; H302, H312, H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Asp. Tox. 1; H304 Skin Sens. 1;H317 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Isopropanol	10-20	67-63-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Heptanes	20-30	426260-76-6	Flam. Liq. 2, H225 Asp. Tox. 1; H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

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

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: Naphthalene (CAS No. 91-20-3); < = 0.7 % (< 0.01% in final formulation)

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation — Move person to fresh air. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention. Get medical advice/attention if you feel unwell.

Skin Contact — Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Take off contaminated clothing and wash it 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 induce vomiting. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed May be fatal if swallowed and enters airways. Do NOT induce vomiting. May cause an allergic skin reaction.

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Indication of any immediate medical attention and special treatment needed	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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	Pressurised container: May burst 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	Eliminate sources of ignition. Avoid contact with skin and eyes. Avoid breathing vapors.
Environmental precautions	Prevent liquid entering sewers, basements and work pits. Avoid release to the environment. Collect spillage.
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. Use product in a well-ventilated area only. Avoid contact with skin and eyes. Avoid breathing vapors.

Conditions for safe storage, including any incompatibilities

-Storage temperature	Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures 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)	Coating Product - Arts & Crafts

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

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SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Propane	74-98-6	1000 ppm	Aspyx.#	-----	-----	#
Butane	106-97-8	-----	250 ppm	-----	-----	-----
Heptane	426260-76-6	----	250ppm	-----	-----	-----
Turpentine	8006-64-2/ 9005-90-7	100 ppm	20 ppm(S)	------	-------	(S)sensitization

#Assure minimum oxygen content of work atmosphere.

Recommended monitoring method NIOSH 1300 (Ketones I); NIOSH 1551 (Turpentine); NIOSH 1550 (Naphthas)

Exposure controls

Appropriate engineering controls Ensure adequate ventilation.

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.

Respiratory protection

Normally no personal respiratory protection is necessary. 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 Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Aerosol spray
Color.	Colorless
Odor	Petroleum spirit / Fuel oil-like
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 x 10^4 (Propane)
Vapor Density (Air=1)	ca. 1.56 @ 0ºC (Propane)
Density (g/ml)	Not available

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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 @ 40ºC
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	This product should be stored away from sources of strong heat or oxidizing chemicals.
Hazardous decomposition product(s)	Carbon monoxide, Carbon dioxide, Acrid smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation**,** Skin Contact**,** Eye Contact

Information on toxicological effects

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

*NTP	*IARC	*ACGIH	*OSHA	*NIOSH
Suspected Human	2B	A3	No.	No.

Mutagenicity	Not to be expected
Reproductive toxicity	Not to be expected

Exposure routes: Inhalation**,** Skin Contact**,** Eye Contact

Substances in preparations / mixtures

Heptane, branched, cylic and linear (CAS# 426260-76-6) - By analogy with similar materials:

Acute toxicity	Oral: LD50 >5 g/kg-bw Dermal: LD50 >2 g/kg-bw Inhalation: LC50 = 65 - 103 mg/L (Vapour), 4-hr. rat May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.
Irritation/Corrosivity	Causes skin irritation. Repeated exposure may cause skin dryness or cracking. May cause eye irritation.
Sensitisation	It is not a skin sensitiser.

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Repeated dose toxicity NOAEC: 12350 mg/m3 (2 yr, inhal., rat, Systemic effects)
LOAEC: 1650 mg/m3 (2 hr, inhal., rat, CNS effects)
May cause drowsiness or dizziness.

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

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

Mutagenicity There is no evidence of mutagenic potential.
Toxicity for reproduction No information available

Turpentine (CAS No. 8006-64-2)

Acute toxicity Oral: LD50 =4.6 ml/kg-bw
Dermal: LD50 >2 g/kg-bw
Inhalation: LC50 =13.7 mg/l (Vapor), 4-hr. rat

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

Sensitization May cause sensitization by skin contact.

Repeated dose toxicity Inhalation: NOAEL = 50 ppm (Vapor)

Carcinogenicity No evidence of carcinogenicity.

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

Mutagenicity There is evidence of mutagenic potential.
Reproductive toxicity Not to be expected

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Heptane, branched, cylic and linear (CAS# 426260-76-6) - By analogy with similar materials:

Short term
LL50 (96 hour): >13.4 mg/L (*Oncorhynchus mykiss*)
EL50 (48 hour): 3 mg/l (*Daphnia magna,* mobility*)*
EC50 (96 hour): 13 mg/l (*Pseudokirchnerella subcapitata*)

Long Term
NOELR (28 days) 1.5 mg/l *(Fish*) QSAR
LOEC (21 days): 0.32 mg/l (*Daphnia magna*)
NOEL (96 hour) 6.3 mg/l (Algae)

Persistence and degradability Biodegradable
Bioaccumulative potential The product has no potential for bioaccumulation.
Mobility in soil Not available.
Results of PBT and vPvB assessment Not classified as PBT or vPvB.
Other adverse effects None known.

Exposure routes: Inhalation**,** Skin Contact**,** Eye Contact

Turpentine (CAS No. 8006-64-2)

Short term
LC50 (96 hour): 29 mg/L (*Zebrafish*)
EL50 (48 hour): 6.4 mg/L (*Daphnia magna*)
EL50 (72 hour): 17.1 mg/L (*Desmodesmus subspicatus*)

Long Term
No data

Persistence and degradability Readily biodegradable.
Bioaccumulative potential Not available.
Mobility in soil Not available.
Results of PBT and vPvB assessment Not classified as PBT or vPvB.

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Other adverse effects None known.

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.

SECTION 14: TRANSPORT INFORMATION

	U.S. DOT	Sea transport (IMDG)	Air transport (ICAO/IATA)
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)
None	------	--------	------

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.
None	-----	-----

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

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

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
NONE	----	----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.
Date of preparation: October 14,2016
Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)
- H220: Extremely flammable gas.
- H225: Highly flammable liquid and vapour.
- H226: Flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H312: Harmful in contact with skin.

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- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation
- H332: Harmful if inhaled..
- H336: May cause drowsiness or dizziness
- H351: Suspected of causing cancer.
- H372: Causes damage to organs through prolonged or repeated exposure.
- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

Training advice: None.

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