SAFETY DATA SHEET Techni-Tool Flux Remover, AEROSOL

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name Techni-Tool Flux Remover, AEROSOL

Product number 758CH752

Recommended use of the chemical and restrictions on use

Application Cleaning agent.

Details of the supplier of the safety data sheet

Manufacturer Techni-Tool, Inc.

1547 North Trooper Road Worcester, PA 19490-1117

610-941-2400 610-940-5485 www.techni-tool.com

Emergency telephone number

Emergency telephone CHEMTREC (800) 424-9300

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status This Product is Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Flam. Aerosol 1 - H222 Press. Gas, Liquefied - H280

Health hazards Eye Irrit. 2A - H319 Repr. 2 - H361 STOT SE 1 - H370 STOT SE 3 - H335 STOT RE 1 - H372

Environmental hazards Not Classified

Human health Splashes in the eyes may cause redness and irritation. Keep out of the reach of children. See

Section 11 for additional information on health hazards.

Label elements

Pictogram







Danger



Signal word

Hazard statements H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs .

H372 Causes damage to organs through prolonged or repeated exposure.

Techni-Tool Flux Remover, AEROSOL

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use

P261 Avoid breathing spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/ attention if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/ attention. P410+P403 Protect from sunlight. Store in a well-ventilated place. P412 Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/ container in accordance with national regulations.

Contains

PROPAN-2-OL, ETHANOL, ACETONE, METHANOL

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

PROPAN-2-OL	30-60%
CAS number: 67-63-0	

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H335

ETHANOL 30-60%

CAS number: 64-17-5

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H335

HFC-134a Tetrafluoroethane

10-30%

CAS number: 811-97-2

Classification

Press. Gas, Liquefied - H280

ACETONE 1-5%

CAS number: 67-64-1

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H335

Techni-Tool Flux Remover, AEROSOL

METHANOL 1-5%

CAS number: 67-56-1

Classification

Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Repr. 2 - H361 STOT SE 1 - H370

STOT RE 1 - H372

The Full Text for all Hazard Statements are Displayed in Section 16.

Composition comments The exact percentage (concentration) of composition has been withheld as a trade secret in

accordance with paragraph (i) of CFR 1900.1200, TSCA: The ingredients of this product are

on the TSCA Inventory.

4. First-aid measures

Description of first aid measures

General information Promptly remove any clothing that becomes wet or contaminated. Move affected person to

fresh air at once. Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air at once. When breathing is difficult, properly trained

personnel may assist affected person by administering oxygen. Keep affected person warm

and at rest. Get medical attention immediately.

Ingestion Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink.

Never give anything by mouth to an unconscious person. Consult a physician for specific

advice.

Skin Contact Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if

irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation Vapors may cause headache, fatigue, dizziness and nausea.

Ingestion May cause stomach pain or vomiting. Headache.

Skin contact Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness.

Pain. Irritation and redness, followed by blurred vision.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray,

fog or mist.

Techni-Tool Flux Remover, AEROSOL

Unsuitable extinguishing

media

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

Special hazards arising from the substance or mixture

Specific hazards The product is extremely flammable.

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water. Use water to keep fire

exposed containers cool and disperse vapors.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots,

clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Eyewear complying with an approved standard should

be worn if a risk assessment indicates eye contact is possible.

Environmental precautions

Environmental precautions Avoid release to the environment. Do not discharge into drains or watercourses or onto the

ground. Contain spillage with sand, earth or other suitable non-combustible material.

Methods and material for containment and cleaning up

Methods for cleaning up Warn everybody of potential hazards and evacuate if necessary. If leakage cannot be

stopped, evacuate area. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate

ventilation. Contain and absorb spillage with sand, earth or other non-combustible material.

Collect and place in suitable waste disposal containers and seal securely.

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health

hazards.

7. Handling and storage

Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and

eyes. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air

contamination is above an acceptable level. Keep out of the reach of children.

Specific end uses(s)

Specific end use(s) Cleaning agent.

Reference to other sections. Store away from incompatible materials (see Section 10).

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

PROPAN-2-OL

Techni-Tool Flux Remover, AEROSOL

Long-term exposure limit (8-hour TWA): OSHA 400 ppm 980 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 492 mg/m³ Short-term exposure limit (15-minute): ACGIH 400 ppm 984 mg/m³

A4

ETHANOL

Long-term exposure limit (8-hour TWA): ACGIH
Short-term exposure limit (15-minute): ACGIH 1000 ppm

HFC-134a Tetrafluoroethane

Long-term exposure limit (8-hour TWA): OES 4240 mg/m³

Short-term exposure limit (15-minute): OES

ACETONE

Long-term exposure limit (8-hour TWA): ACGIH 250 ppm 594 mg/m³ Short-term exposure limit (15-minute): ACGIH 500 ppm 1187 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 2400 mg/m³

METHANOL

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 262 mg/m³ Short-term exposure limit (15-minute): ACGIH 250 ppm 328 mg/m³ Sk

Long-term exposure limit (8-hour TWA): OSHA 200 ppm 260 mg/m³
OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

Sk = Danger of cutaneous absorption.

Exposure controls

Protective equipment





Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or

prolonged vapor contact.

Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using

do not eat, drink or smoke.

Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Techni-Tool Flux Remover, AEROSOL

Appearance Liquid.

Color Colorless.

Odor Alcoholic.

Odor threshold

No information available.

PH

No information available.

Melting point

No information available.

Initial boiling point and range 77.6°C/172°F @ 101.3 kPa

Flash point 12°C/53°F TCC (Tag closed cup).

Evaporation rate

No information available.

Evaporation factor

No information available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Viscosity

Upper flammable/explosive limit: 12.7 %(V) Lower flammable/explosive limit: 2.0 %(V)

Other flammability The product is highly flammable.

Vapor pressure 5.2 kPa @ 20°C

Vapor density 1.82

Relative density

No information available.

Bulk density

No information available.

Solubility(ies)

Completely soluble in water.

Partition coefficient

Auto-ignition temperature

No information available.

No information available.

No information available.

Explosive propertiesNo information available.

Oxidising properties There are no chemical groups present in the product that are associated with oxidizing

properties.

No information available.

Refractive index

No information available.

Particle size

No information available.

Molecular weight

No information available.

Volatility 100%

Saturation concentration No information available.

Critical temperature No information available.

10. Stability and reactivity

Stability Stable at normal ambient temperatures.

Possibility of hazardous

reactions

Will not polymerize.

Techni-Tool Flux Remover, AEROSOL

Conditions to avoid Avoid heat, flames and other sources of ignition.

Materials to avoid Strong oxidizing agents. Strong alkalis. Strong mineral acids.

Hazardous decomposition

products

Fire creates: Vapors/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11. Toxicological information

Information on toxicological effects

Other health effects There is no evidence that the product can cause cancer.

Acute toxicity - oral

ATE oral (mg/kg) 6,666.67

Acute toxicity - dermal

ATE dermal (mg/kg) 20,000.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 200.0

Inhalation May cause respiratory system irritation. Vapors may cause headache, fatigue, dizziness and

nausea. Prolonged inhalation of high concentrations may damage respiratory system.

Skin Contact Product has a defatting effect on skin. May cause skin irritation/eczema.

Eye contact Irritating to eyes.

Toxicological information on ingredients.

PROPAN-2-OL

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

HFC-134a Tetrafluoroethane

Other health effects There is no evidence that the product can cause cancer.

Acute toxicity - inhalation

Acute toxicity inhalation

567,000.0

(LC_∞ gases ppmV)

Species Rat

ATE inhalation (gases

567,000.0

ppm)

METHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

7,300.0

Techni-Tool Flux Remover, AEROSOL

Species Mouse

100.0 ATE oral (mg/kg)

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 15,800.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation

64,000.0

3.0

(LC50 vapours mg/l)

Species Rat

ATE inhalation (vapours

mg/l)

12. Ecological Information

Toxicity

Ecological information on ingredients.

PROPAN-2-OL

Acute toxicity - fish LC₅₀, 96 hours: 9,640 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 5102 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: >2,000 mg/l, Algae

ETHANOL

Acute toxicity - fish LC₅₀, 96 hours: >10,000 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 7,800 mg/l, Daphnia magna

HFC-134a Tetrafluoroethane

Acute toxicity - fish LC₅₀, 96 hours: 450 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 980 mg/l, Daphnia magna

METHANOL

LC₅₀, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow) Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: >10000 mg/l, Daphnia magna

Bioaccumulative potential

Partition coefficient No information available.

Techni-Tool Flux Remover, AEROSOL

Ecological information on ingredients.

HFC-134a Tetrafluoroethane

Partition coefficient Pow: 1.06

Mobility in soil

Mobility Not considered to be a significant hazard due to the small quantities used.

13. Disposal considerations

Waste treatment methods

General information Reuse or recycle products wherever possible.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

14. Transport information

UN Number

UN No. (DOT) UN1950 UN No. (TDG) UN1950 UN No. (IMDG) UN1950 UN No. (ICAO) UN1950

UN proper shipping name

Proper shipping name (DOT) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY Proper shipping name (TDG) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY Proper shipping name UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY (IMDG)

Proper shipping name (ICAO) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

Transport hazard class(es)

TDG class 2.1 **TDG label** 2.1 **IMDG Class** 2.1 ICAO class/division 2.1

Transport labels



Packing group

DOT pack group N/A **TDG Packing Group** N/A IMDG packing group N/A ICAO packing group N/A

Environmental hazards

Techni-Tool Flux Remover, AEROSOL

Environmentally Hazardous Substance

No.

Special precautions for user

EmS F-E, S-E

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

METHANOL

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

ACETONE

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

METHANOL

1.0 %

CAA Accidental Release Prevention

Not listed.

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

METHANOL

Known to the State of California to cause developmental and reproductive toxicity.

California Air Toxics "Hot Spots" (A-I)

METHANOL

Present.

PROPAN-2-OL

Present.

California Air Toxics "Hot Spots" (A-II)

Not listed.

California Directors List of Hazardous Substances

METHANOL Present.

ACETONE Present.

PROPAN-2-OL Present.

Massachusetts "Right To Know" List

Techni-Tool Flux Remover, AEROSOL

ETHANOL Yes.
METHANOL Present.
ACETONE Present.
PROPAN-2-OL Present.
Rhode Island "Right To Know" List
ETHANOL Yes.
METHANOL Present.
ACETONE Present.
PROPAN-2-OL Present.
Minnesota "Right To Know" List
ETHANOL Yes.
METHANOL Present.
ACETONE Present.
PROPAN-2-OL Present.
HFC-134a Tetrafluoroethane Present.
New Jersey "Right To Know" List
ETHANOL Yes.

Techni-Tool Flux Remover, AEROSOL

METHANOL

Present.

ACETONE

Present.

PROPAN-2-OL

Present.

Pennsylvania "Right To Know" List

ETHANOL

Yes.

METHANOL

Present.

ACETONE

Present.

PROPAN-2-OL

Present.

Inventories

US-TSCA

Yes

ETHANOL

Yes

METHANOL

Present.

ACETONE

Present.

PROPAN-2-OL

Present.

16. Other information

Revision date 12/23/2015

Revision 1

SDS No. 20277

Hazard statements in full H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed. H311 Toxic in contact with skin. H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs .

H372 Causes damage to organs through prolonged or repeated exposure.

Techni-Tool Flux Remover, AEROSOL

NFPA - health hazard Irritation, minor residual injury. (1)

NFPA - flammability hazard Ignites easily. (3)

NFPA - instability hazard Unstable if heated. (1)

NFPA - special hazard N/A

ACA HMIS Health rating. Slight Hazard. (1)

ACA HMIS Flammability

rating.

Ignites easily. (3)

ACA HMIS Physical hazard

rating.

Unstable if heated. (1)

ACA HMIS Personal

protection rating.

В

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.