

SAFETY DATA SHEET

SECTION 1. Identification of the hazardous chemical substance or mixture and of the supplier or manufacturer

Name of the hazardous T-Force Degreaser - 3.78 L

chemical substance or mixture Other means of identification

Product Code Item# 1751402

Recommended use of the hazardous chemical substance or mixture, and restrictions of use

Recommended use General purpose degreaser

Recommended restrictions None known.

Suppliers details

CRC Industrias de Mexico S. de R. L. de C.V.

Address Cerrada Canadá 201-H

Fraccionamiento Industrial Martel

Santa Catarina, NL 66367

Mexico

Telephone General Information 81-2139-0572

Website www.crc-mexico.com
E-mail SoporteTecnico@crcind.com

Emergency phone number 24-Hour Emergency 01-800-681-9531

SECTION 2. Hazard identification

Classification of the substance or mixture

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, Category 3

long-term hazard

Elements of labeling, including precautionary statements and warning pictograms



Signal word Danger

Hazard statement

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing vapors.
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P273 Avoid release to the environment.
P280 Wear eye protection/face protection.

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Wear protective gloves. P280

Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor. P301 + P310

P330

Do NOT induce vomiting. P331

IF ON SKIN: Wash with plenty of water. P302 + P352

If skin irritation occurs: Get medical advice/attention. P332 + P313 Take off contaminated clothing and wash it before reuse. P362 + P364

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 + P340 Call a POISON CENTER/doctor if you feel unwell.

P312

P305 + P351 + P338

IF IN EYES: 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. P337 + P313

Storage

Store in a well-ventilated place. Keep container tightly closed. P403 + P233

Store locked up. P405

Disposal

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

Other hazards which do not result in classification

None known.

Supplemental information When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal

corrosive gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.

SECTION 3. Composition/information on ingredients

Mixtures

Chemical identity	Common name(s), synonym(s)	CAS number and other unique identifiers	Concentration
trans-1,2-dichloroethylene		156-60-5	80 - 90

Composition comments

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4. First-aid measures

Description of necessary first-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

center or doctor/physician if you feel unwell.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information**

protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5. Fire-fighting measures

Suitable extinguishing media

Foam. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

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

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride,

hydrogen chloride, and possibly phosgene.

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Special protective actions for

firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

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

General fire hazards

Specific methods

No unusual fire or explosion hazards noted.

SECTION 6. Measures that must be taken in the event of accidental spillage or an accidental leak

Move containers from fire area if you can do so without risk.

Personal precautionary measures, protective equipment and emergency procedure

For non-emergency

personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing vapors. 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 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containing and cleaning up spills or releases

Use water spray to reduce vapors or divert vapor cloud drift. This product is miscible in water. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

SECTION 7. Handling and storage

Precautions for safe handling

Do not taste or swallow. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Value

Value

SECTION 8. Exposure controls/personal protection

Control parameters

Components

Occupational exposure limits

Components	туре	value
trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	200 ppm
US. ACGIH Threshold Limit Values		

Components trans-1,2-dichloroethylene Type TWA 200 ppm

(CAS 156-60-5) **Biological limit values**

No biological exposure limits noted for the ingredient(s).

Control banding approach

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, 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. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment (PPE)

Not available

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear protective gloves such as: Nitrile. Polyvinyl alcohol (PVA). Viton/butyl.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. 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 contaminants.

SECTION 9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Liquid.
Color Colorless.
Odor Slight ethereal.
Odor threshold Not available.
pH Not available.

Melting point/freezing point Initial boiling point and boiling

range

-119.2 °F (-84 °C) estimated 119.7 °F (48.7 °C) estimated

Flash point > 266 °F (> 130 °C) Setaflash

Evaporation rate Fast.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

2 % estimated

(%)

Flammability limit - upper

18 % estimated

(%)

Vapor pressure 423.8 hPa estimated

Vapor density > 1 (air = 1)

Relative density 1.27

Solubility(ies)

Solubility (water) Slight.

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature 797 °F (425 °C) estimated

Decomposition temperatureNot available.ViscosityNot available.Molecular weightNot available.

Other information

Percent volatile 100 % estimated

SECTION 10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions that must be

avoided

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene. Contact with

incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides. Hydrogen chloride. Phosgene. Hydrogen fluoride.

SECTION 11. Toxicological information

Information about likely routes of entry

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or

vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Delayed and immediate effects and also chronic effects from short and long term exposure

Numerical measures of toxicity (such as acute toxicity estimates)

Acute toxicity May be fatal if swallowed and enters airways. In high concentrations, vapors are anesthetic and

may cause headache, fatigue, dizziness and central nervous system effects.

Components Species Test Results

trans-1,2-dichloroethylene (CAS 156-60-5)

Acute Oral

LD50 Rat 1235 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

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

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Other information Not available.

SECTION 12. Ecotoxicological information

Toxicity Harmful to aquatic life with long lasting effects.

Components Species Test Results

trans-1,2-dichloroethylene (CAS 156-60-5)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 120 - 160 mg/l, 96 hours

Acute

Crustacea EC50 Water flea (Daphnia magna) 220 mg/l, 48 hours

Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

trans-1,2-dichloroethylene 2.06

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

No data is available on the degradability of any ingredients in the mixture.

potential.

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SECTION 13. Disposal considerations

Disposal methods

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

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.

SECTION 14. Transport information

SCT

Not regulated as dangerous goods.

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

the IBC Code

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

Not established.

SECTION 15. Regulatory information

Safety, health and environmental regulations specific for the hazard chemical substance or mixture in question

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

Not listed.

International regulations

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

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Country(s) or region Inventory name On inventory (yes/no)*

Taiwan Taiwan Chemical Substance Inventory (TCSI)

Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

SECTION 16. Other included information relevant to the preparation and updating of safety data sheets

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List of abbreviations

Disclaimer

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland

Waterways.

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

DOT: Department of Transportation (49 CFR 172.101).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG Code: International Maritime Dangerous Goods Code.

MARPOL: International Convention for the Prevention of Pollution from Ships. SCT: Secretariat of Communications and Transportation (NOM-002-SCT/2011).

Workplace Threshold Quantities of Hazardous Chemicals References

> NOM-047-SSA1-2011 – Workplace Biological Exposure Indices (BEIs) to Chemical Substances NOM-028-STPS-2012 - Work-Safety Management System for Processes and Critical Equipment

Handling Hazardous Chemical Substances

NOM-018-STPS-2000 - Workplace Hazardous Chemical Substances Communication and

Identification Standard

NOM-010-STPS-2014 (second revision) - Occupational Exposure Limits - becomes effective on

April 28, 2016

CRC # 697/1002744 **Further information**

This information is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for

the product must be applied.

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industrias de Mexico S. de R. L. de C.V..

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^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).