

Safety Data Sheet

Dynatex® 49671 Non-Chlorinated Brake & Parts Cleaner

Section 1. Identification

Product Identifier Dynatex® 49671 Non-Chlorinated Brake & Parts Cleaner
Synonyms 49671CL01
Manufacturer Stock Numbers 49671CL01

Recommended use Refer to Technical Data
Uses advised against Refer to Technical Data

Manufacturer Contact
Address Dynatex a division of Soudal Accumetric
350 Ring Road
Elizabethtown, KY, 42701
USA

Phone	Emergency Phone	Fax
(270) 769-3385	(800) 424-9300 CHEMTREC	N/A

Section 2. Hazards Identification

Classification ASPIRATION HAZARD - Category 1
EYE DAMAGE/IRRITATION - Category 2A
FLAMMABLE LIQUIDS - Category 2
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3
TOXIC TO REPRODUCTION - Category 2

Signal Word Danger

Pictogram



Hazard Statements Causes serious eye irritation
Causes skin irritation
Highly flammable liquid and vapor

May be fatal if swallowed and enters airways
May cause damage to organs (central nervous system) through prolonged or repeated exposure if inhaled.
May cause drowsiness or dizziness
Suspected of damaging fertility or the unborn child.

Precautionary Statements

Response

Call a poison center/doctor if you feel unwell.
Do NOT induce vomiting.
Get medical advice/attention if you feel unwell.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If medical advice is needed, have product container or label at hand.
If on skin (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs: Get medical advice/attention.
If swallowed: Immediately call a poison center/doctor.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Prevention

Take off contaminated clothing and wash it before reuse.
Avoid breathing dust/fume/gas/mist/ vapors/spray.
Do not breathe dust/fume/gas/mist/ vapors/spray.
Do not handle until all safety precautions have been read and understood.
Ground/bond container and receiving equipment.
Keep away from heat.
Keep container tightly closed.
Obtain special instructions before use.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Wash skin thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves.
Wear protective gloves/eye protection/face protection
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal

Dispose of contents/container to an approved waste disposal plant.

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

Potential Health Effects - Carcinogenicity

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Additional Information False

Section 3. Ingredients

CAS	Ingredient Name	Weight %
67-63-0	Isopropanol	10% - 20%
110-54-3	Hexane	70% - 90%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

General advice
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.

If inhaled
Consult a physician after significant exposure.
If unconscious place in recovery position and seek medical advice.

In case of skin contact
If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact
Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
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Unsuitable Extinguishing Media	High volume water jet
Specific hazards during firefighting	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	No hazardous combustion products are known.
Specific extinguishing methods	Use a water spray to cool fully closed containers.
Further information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.
Special protective equipment for firefighters	Wear self-contained breathing apparatus for fire-fighting if necessary.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Section 7. Handling and Storage

Advice on safe handling	Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use.
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Avoid contact with skin and eyes.
 For personal protection see section 8.
 Smoking, eating and drinking should be prohibited in the application area.
 Take precautionary measures against static discharges.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Open drum carefully as content may be under pressure.
 Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage No smoking.

Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully re-sealed and kept upright to prevent leakage.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Isopropanol	400 ppm	400 ppm	500 ppm
	Hexane	50 ppm	500 ppm	1000 ppm
Personal Protective Equipment	Goggles, Gloves			
Respiratory protection	No personal respiratory protective equipment normally required. In the case of vapour formation use a respirator with an approved filter.			
Hand protection	The suitability for a specific workplace should be discussed with the producers of the protective gloves.			
Eye protection	Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.			
Skin and body protection	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.			
Hygiene measures	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Clear
Odor	No data available
Odor Threshold	No data available
Solubility	No data available
Partition coefficient Water/n-octanol	No data available

VOC%	N/A
Viscosity	N/A
Specific Gravity	0.689
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	< -18C < -0.4F
FP Method	N/A
Ph	No data available
Melting Point	No data available
Boiling Point	No data available
Boiling Range	N/A
LEL	1.1
UEL	12
Evaporation Rate	1 (Ethyl ether)
Flammability	No data available
Decomposition Temperature	No data available
Auto-ignition Temperature	No data available
Vapor Pressure	No data available
Vapor Density	> 1 (Air = 1.0)

Note

The above information is not intended for use in preparing product specifications. Contact Soudal Accumetric before writing specifications.

Section 10. Stability and Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Product will not undergo hazardous polymerization. Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials	Acids Aldehydes Alkalis Amines Chlorine Ethylene oxide Halogenated hydrocarbons Halogens Isocyanates

Peroxides
Strong oxidizing agents
Do not use with aluminum equipment at temperatures above 120F.

Section 11. Toxicological Information

Acute toxicity - product

Acute oral toxicity:
Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

Acute dermal toxicity:
Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

Acute toxicity - components

110-54-3:
Acute oral toxicity:
LD50 (rat): 16,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity:
LC50 (rat): > 31.86 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity:
LD50 (rabbit): > 2,000 mg/kg
Assessment: The component/mixture is low toxic after single contact with skin.

67-63-0:
Acute oral toxicity:
LD50 (rat): 5,500 mg/kg

Acute inhalation toxicity:
LC50 (rat, male and female): > 10000 ppm
Exposure time: 6 h
Test atmosphere: vapour
GLP: yes
Assessment: The component/mixture is low toxic after short term inhalation.

Acute dermal toxicity:
LD50 (rabbit): > 12,800 mg/kg

Skin corrosion/irritation

PRODUCT
Remarks: Irritating to skin.

COMPONENTS

110-54-3:
Species: rabbit
Result: Irritating to skin.

67-63-0:
Species: rabbit
Exposure time: 4 h

Serious eye damage/eye irritation

Method: In vivo
Result: No skin irritation
PRODUCT
Remarks: Irritating to eyes.

COMPONENTS

110-54-3:
Species: rabbit
Result: Irritating to eyes.

67-63-0:
Species: rabbit
Result: Irritating to eyes.
Exposure time: 24 h
Method: In vivo

Respiratory or skin sensitisation

COMPONENTS

110-54-3:
Test Type: lymph node assay
Species: mouse
Result: Did not cause sensitisation on laboratory animals.

67-63-0:
Test Type: Buehler Test
Species: guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.
GLP: yes

Germ cell mutagenicity

COMPONENTS

110-54-3:
Genotoxicity in vitro:
Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo:
Test Type: Dominant lethal assay
Test species: mouse (male)
Application Route: inhalation (vapour)
Exposure time: 6/d, 5/wk for 8 wks
Result: negative

Germ cell mutagenicity- Assessment:
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

67-63-0:
Genotoxicity in vitro:
Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: Mammalian cell gene mutation assay
Test species: Chinese hamster ovary (CHO)
Metabolic activation: with and without metabolic activation

Result: negative
GLP: yes

Genotoxicity in vivo:
Test Type: In vivo micronucleus test
Test species: mouse (male and female)
Application Route: Intraperitoneal
Exposure time: Single
Dose: 0, 350, 1173, 2500, 3500 mg/kg
Result: negative
GLP: yes

Germ cell mutagenicity- Assessment:
Did not show mutagenic effects in animal experiments.

Carcinogenicity

COMPONENTS

110-54-3:
Species: rat
Application Route: inhalation (vapour)
Exposure time: 2 yrs
Frequency of Treatment: 5 days/week
NOAEL: 9,000 ppm

Method: OECD Test Guideline 451
Result: did not display carcinogenic properties
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Carcinogenicity - Assessment:
No evidence of carcinogenicity in animal studies.

67-63-0:
Species: rat, (male and female)
Application Route: inhalation (vapour)
Exposure time: 104 wks
Activity duration: 6 h
Dose: 0, 500, 2500, 5000 ppm
Frequency of Treatment: 5 days/week
NOAEL: 5,000 ppm

Method: OECD Test Guideline 451
Result: did not display carcinogenic properties
GLP: yes

Species: mouse, (male and female)
Application Route: inhalation (vapour)
Exposure time: 78 wks
Activity duration: 6 h
Dose: 0, 500, 2500, 5000 ppm
Frequency of Treatment: 5 days/week
NOAEL: 5,000 ppm

Result: did not display carcinogenic properties
GLP: yes

Reproductive toxicity

Carcinogenicity - Assessment:
Not classifiable as a human carcinogen.

COMPONENTS

110-54-3:

Effects on fertility:

Species: rat, male

Application Route: inhalation (vapour)

Frequency of Treatment: 6 days/week

General Toxicity - Parent: LOAEL: 5,000 ppm

Symptoms: Testicular effects

Effects on fetal development:

Test Type: Fertility/early embryonic development

Species: mouse

Application Route: inhalation (vapour)

Duration of Single Treatment: 12 d

Developmental Toxicity: LOAEC: 200 ppm

Reproductive toxicity - Assessment:

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

67-63-0:

Effects on fertility:

Test Type: Two-generation study

Species: rat, male and female

Dose: 0, 100, 500, 1000 mg/kg bw/d

General Toxicity - Parent: NOAEL: 500 mg/kg body weight

General Toxicity F1: NOAEL: 500 mg/kg body weight

Fertility: NOAEL: 1,000 mg/kg body weight

Symptoms: Maternal effects. Fetotoxicity. Reduced offspring weight gain.

Method: OECD Test Guideline 416

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development:

Species: rabbit

Application Route: Oral

Dose: 0, 120, 240, 480 mg/kg bw/day

Duration of Single Treatment: 13 d

General Toxicity Maternal: NOAEL: 240 mg/kg body weight

Developmental Toxicity: NOAEL: 480 mg/kg

Symptoms: Maternal toxicity

Result: No teratogenic effects.

GLP: yes

Reproductive toxicity - Assessment:

Animal testing did not show any effects on fertility.

Did not show teratogenic effects in animal experiments.

STOT - single exposure

PRODUCT:

No data available

COMPONENTS:

110-54-3:

Exposure routes:
Inhalation

Target Organs:
Central nervous system

Assessment:
May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

67-63-0
Exposure routes:
Inhalation, Ingestion

Target Organs:
Central nervous system

Assessment:
May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

PRODUCT
No data available

COMPONENTS
110-54-3:
Exposure routes:
Inhalation

Target Organs:
Central nervous system

Assessment:
May cause damage to organs through prolonged or repeated exposure. The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

67-63-0
No data available

Repeated dose toxicity

COMPONENTS
110-54-3:
Species: rat
NOAEL: 568 mg/kg
Application Route: Oral
Exposure time: 120 d
Number of exposures: 5 d/wk

67-63-0:
Species: rat, male and female
NOAEL: > 5000
Application Route: inhalation (vapour)
Exposure time: 13 wks
Number of exposures: 6 h/d, 5 d/wk
Dose: 0, 100, 500, 1500, 5000 ppm

Method: OECD Test Guideline 413
GLP: yes
Symptoms: Central nervous system depression

Species: mouse, male and female
NOAEL: > 5000
Application Route: inhalation (vapour)
Exposure time: 13 wks
Number of exposures: 6 h/d, 5 d/wk
Dose: 0, 100, 500, 1500, 5000 ppm
Method: OECD Test Guideline 413
GLP: yes
Symptoms: Central nervous system depression

Aspiration toxicity

COMPONENTS
110-54-3:
May be fatal if swallowed and enters airways.

Further information

67-63-0:
May be harmful if swallowed and enters airways.
PRODUCTS
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

Section 12. Ecological Information

Ecotoxicity

COMPONENTS
110-54-3:
Toxicity to fish:
LC50 (Pimephales promelas (fathead minnow)): 2.5 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): 2.1 mg/l
Exposure time: 48 h

Toxicity to algae:
EbL50 (Pseudokirchneriella subcapitata (green algae)): 26 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes

Ecotoxicology Assessment
Acute aquatic toxicity: Toxic to aquatic life.
Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

67-63-0

Toxicity to fish:
LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 24 h
Test Type: static test

Toxicity to algae:
No data available

Toxicity to bacteria:
Toxicity threshold (Pseudomonas putida): 1,050 mg/l
Exposure time: 16 h

Persistence and
degradability

COMPONENTS
110-54-3:
Biodegradability:
aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 83 %
Exposure time: 28 d

67-63-0:
Biodegradability:
Result: Readily biodegradable.
Biodegradation: 95 %
Method: OECD Test Guideline 301E

Chemical Oxygen Demand (COD):
0.00209 mg/g

Bioaccumulative potential

Theoretical Oxygen Demand (ThOD):
0.00240 mg/g

COMPONENTS
110-54-3:
Partition coefficient: n-octanol/water:
log Pow: 3.90 - 4.11

67-63-0:
Bioaccumulation:
Bioconcentration factor (BCF): 3.16
Remarks: Does not significantly accumulate in organisms.

Mobility in soil

Partition coefficient: n-octanol/water:
log Pow: 0.05 (25 °C)

COMPONENTS
67-63-0:
Stability in soil:
Remarks: Adsorbs on soil.

Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

Section 13. Disposal

Waste from residues	Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

Section 14. Transport Information

UN Number	1263
UN Proper Shipping Name	PAINT RELATED MATERIAL
DOT Classification	3
Packing Group	II

Section 15. Regulatory Information

OSHA Hazards	Flammable liquid, Moderate skin irritant, Moderate eye irritant, Carcinogen, Teratogen, Reproductive hazard, Aspiration hazard
WHMIS Classification	B2: Flammable liquid D2A: Very Toxic Material Causing Other Toxic Effects D2B: Toxic Material Causing Other Toxic Effects
CERCLA Reportable Quantity	Components Hexane CAS-No. 110-54-3 Component RQ (lbs) 5000 Calculated product RQ (lbs) Calculated RQ exceeds reasonably attainable upper limit.
SARA 304 Extremely Hazardous Substances Reportable Quantity	This material does not contain any components with a section 304 EHS RQ.
SARA Title III	SARA 311/312 Hazards Fire Hazard Acute Health Hazard

Chronic Health Hazard

SARA 302:
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313
The following components are subject to reporting levels established by SARA Title III, Section 313: 110-54-3 Hexane 88.4211 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61): 110-54-3 Hexane 88.4211 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

67-63-0 Isopropyl alcohol 11.5789 %

64-17-5 Ethanol 0.0115 %

71-23-8 n-Propanol 0.0017 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

US State Regulations

Massachusetts Right To Know

110-54-3 Hexane 70 - 90 %

67-63-0 Isopropyl alcohol 10 - 20 %

Pennsylvania Right To Know

110-54-3 Hexane 70 - 90 %

Proprietary component 30 - 50 %

67-63-0 Isopropyl alcohol 10 - 20 %

New Jersey Right To Know

110-54-3 Hexane 70 - 90 %

Proprietary component 30 - 50 %

67-63-0 Isopropyl alcohol 10 - 20 %

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

United States TSCA Inventory:

On TSCA Inventory

Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL

Section 16. Other Information

Revision Date

8/20/2015

Disclaimer

The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.