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SAFETY DATA SHEET

Issue Date: 29 October 2015

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: **DYNASOL**

Product Description: **SAFETY-SOLVENT DEGREASER**

Other Means of Identification

Product # 086, I502
Synonyms Dynasol HF

Details of the Supplier of the Safety Data Sheet

Company Name CHEMCO INDUSTRIES, INC.
5731 Manchester Avenue
St. Louis, MO 63110
www.chemcoindustries.com
314-647-1888
1-800-854-4236 (to Reorder)

Emergency Telephone Number

Emergency Telephone INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification (GHS-US)

Skin Irrit. 2 H315
Eye Irrit. 2A H319
Muta. 2 H341
Carc. 1B H350
STOT SE 3 H336

*Full text of H-phrases: see section 16

GHS-US Labeling

Hazard pictograms (GHS-US):



Signal Word (GHS-US): **Danger**

Hazard Statements (GHS-US):

Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness
Suspected of causing genetic defects
May cause cancer

Precautionary statements (GHS-US):

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood.
Avoid breathing fume, mist, spray, vapors
Wash thoroughly after handling
Use only outdoors or in a well-ventilated area
Wear eye protection, protective clothing, protective gloves
If on skin: Wash with plenty of water
If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If exposed or concerned: Get medical advice/attention.

Call a doctor, a POISON CENTER if you feel unwell

Specific treatment (see First aid measures on this label)

If skin irritation occurs: Get medical advice/attention

If eye irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before use.

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

Store locked up.

Dispose of contents/container to comply with local/regional/national/international regulations

Other hazards: No additional information available

Unknown acute toxicity (GHS-US): Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable

*Full text of H-phrases: see section 16

Mixture:

Name	Product identifier	%	Classification (GHS-US)
Trichloroethylene, trichloroethene	(CAS No) 79-01-6	60.0-100.0	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H336 Aquatic Chronic 3, H412

4. FIRST AID MEASURES

Description of first aid measures:

First-aid measures general:

Show this sheet where possible. Call a poison center or doctor if you feel unwell.

First-aid measures after inhalation:

Remove the victim into fresh air. Artificial respiration and /or oxygen if necessary.

First-aid measures after skin contact:

Wash with water and soap. Consult a doctor/medical service.

First-aid measures after eye contact:

Rinse immediately with plenty of water for 15 minutes. Consult an eye specialist.

First-aid measures after ingestion:

Rinse mouth with water. Immediately consult a doctor/medical service.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries:

May cause drowsiness or dizziness. May cause cancer. Causes skin irritation.

Causes serious eye irritation. Suspected of causing genetic defects.

Symptoms/injuries after inhalation:

May cause drowsiness or dizziness.

Symptoms/injuries after skin contact:

Causes skin irritation.

Symptoms/injuries after eye contact:

Causes serious eye irritation.

Symptoms/injuries after ingestion:

Gastrointestinal complaints.

Indication of any immediate medical attention and special treatment needed:

No additional information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media:

Water spray. Alcohol-resistant foam. Dry chemical powder. Carbon dioxide.

Special hazards arising from the substance or mixture:

Fire hazard:

Non-flammable.

Reactivity:

Thermal decomposition may produce: carbon oxides. HCl.

Advice for firefighters:

Firefighting instructions:

Exercise caution when fighting any chemical fire.

Protection during firefighting:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

General measures:	Evacuate unnecessary personnel.
For non-emergency personnel:	
Protective equipment:	Do not enter without an appropriate protective equipment
Emergency procedures:	Avoid breathing dust/fume/gas/mist/vapor/spray
For emergency responders:	
Protective equipment:	Equip cleanup crew with proper protection. Use personal protective equipment as required.
Emergency procedures:	Stop leak if safe to do so. Stop release. Ventilate area.

Environmental precautions:

Stop leak if safe to do so. Do not allow to enter drains or water courses. Avoid discharge to the environment.

Methods and material for containment and clean up:

For containment:	Contain released substance, pump into suitable containers.
Methods for cleaning up:	Take up liquid spill into inert absorbent material.

Reference to other sections:

No additional information available.

7. HANDLING AND STORAGE

Precautions for safe handling:

Precautions for safe handling:	Avoid contact with skin and eyes.
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Conditions for safe storage, including any incompatibilities:

Storage conditions:	Keep container tightly closed. Store in a well-ventilated place.
Storage area:	Keep container in a well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

No additional information available.

Exposure controls:

Personal protective equipment:	Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective clothing. Protective goggles.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state	Liquid
Appearance	Clear, colorless liquid
Odor	odorless
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20 C	No data available
Specific gravity/density	No data available
Solubility	No data available
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available

Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
VOC content	> 90%

10. STABILITY AND REACTIVITY

Reactivity:

Thermal decomposition may produce: carbon oxides. HCl.

Chemical stability:

Stable under normal conditions.

Possibility of hazardous reactions:

No additional information available.

Conditions to avoid:

No additional information available.

Incompatible materials:

Oxidizing agent. Strong bases. Magnesium

Hazardous decomposition products:

No additional information available.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:	Not classified.
Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Suspected of causing genetic defects
Carcinogenicity:	May cause cancer.

Trichloroethylene, trichloroethene (79-01-6)	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be human carcinogen

Reproductive toxicity:	Not classified
Specific target organ toxicity (single exposure):	May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure):	Not classified
Aspiration hazard:	Not classified.
Symptoms/injuries after inhalation:	May cause drowsiness or dizziness.
Symptoms/injuries after skin contact:	Causes skin irritation.
Symptoms/injuries after eye contact:	Causes serious eye irritation.
Symptoms/injuries after ingestion:	Gastrointestinal complaints.

12. ECOLOGICAL INFORMATION

Toxicity:

No additional information available.

Persistence and degradability:

No additional information available.

Bioaccumulative potential:

No additional information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste disposal recommendations: No additional information available.

14. TRANSPORT INFORMATION

Department of Transportation (DOT)

In accordance with DOT: Not regulated for transport.
Transport document description: UN1710 Trichloroethylene, 6.1, III
UN-No.(DOT): UN1710
Proper Shipping Name (DOT): Trichloroethylene
Transport hazard class(es) (DOT): 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT): 6.1 - Poison inhalation hazard
Packing group (DOT): III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx): 203
DOT Packaging Bulk (49 CFR 173.xxx): 241
DOT Special Provisions (49 CFR 172.102):IB3, N36, T4, TP1
DOT Packaging Exceptions (49 CFR 173.xxx): 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 175.27): 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 220 L
DOT Vessel Stowage Location: A
DOT Vessel Stowage Other: 40 - Stow "clear of living quarters"

Additional information:

Other information: No supplementary information available.

ADR:

Transport document description: UN1710 TRICHLOROETHYLENE (TRICHLOROETHYLENE), 6.1, iii, (E)
Packing group (ADR): III
Class (ADR): 6.1 - Toxic substances
Hazard identification number (Kemler No.): 60
Classification code (ADR): T1
Hazard labels (ADR): 6.1 - Toxic substances
Orange plates: 60: 1710
Tunnel restriction code (ADR): E
Limited quantities (ADR): 5I
Excepted quantities (ADR): E1

Transport by sea:

No additional information available.

Air Transport:

No additional information available.

15. REGULATORY INFORMATION

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) or 1986 and 40 CFR Part 372.

Trichloroethylene, trichloroethene	CAS No 79-01-6	60.0-100.0
Trichloroethylene, trichloroethene (79-01-6)		
Listed on SARA Section 313 (Specific toxic chemical listings)		
RQ (Reportable quantity, section 304 of EPA's List of Lists)		100 lb

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the State of California to cause cancer and /or reproductive toxicity.

16. OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 1B	Carcinogenicity Category 1B
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A

Muta. 2	Germ cell mutagenicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H350	May cause cancer
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard: 0 - Materials that will not burn.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water

Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendee or users assume all risks associated with the use of this material.