

MATERIAL SAFETY DATA SHEET for **HURCO** TECHNOLOGIES, INC.

LiquiSmoke™

SECTION I Product Identification

TRADE NAME:

Hurco LiquiSmoke™

GENERAL OR GENERIC ID: Hydrotreated Middle Distillate
DOT HAZARD CLASSIFICATION: N/A
CHEMICAL FORMULA: Proprietary

This material is in compliance with the
Toxic Substances Control Act (15 USC 2601—2629).

SECTION II Composition, Information on Ingredients

INGREDIENT: Hydrotreated Middle Distillate
CAS #: 64742-46-7
PERCENT: 100

EXPOSURE INFORMATION
Ingredients ACGIH TLV STEL OSHA PEL STEL
Hydrotreated Middle Distillate 100 mg/m3 NA NA
Exposure limits expressed as 8-hour TWA concentrations in either parts
per million (ppm), or milligrams per cubic meter (mg/m3).

SECTION III Hazards Identification

ROUTES OF ENTRY
Inhalation: Yes
Skin: Yes
Ingestion: Yes

EXPOSURE EFFECTS
Symptoms of Exposure: Headache, drowsiness, eye, respiratory
or skin irritation, nausea, numbness.
Acute Exposure Effects: Ingestion may cause nausea, vomiting and
diarrhea.

Chronic Exposure Effects: Dermatitis, pneumonitis & pulmonary
edema.

MEDICAL CONDITION
Aggravated by Exposure: NA
Carcinogen Status: No
NTP: No
OSHA: No
IARC: No

CARCINOGENICITY STMT: According to IARC Monographs, severely
Hydrotreated oils, such as this product, are not considered carcinogenic.
Nevertheless, good industrial hygienic practices are recommended.

SECTION IV First Aid Measures

Emergency and First Aid Procedures

Remove from contaminated atmosphere. Give artificial respiration
if not breathing. Remove contaminated clothing. Thoroughly wash
affected areas with soap and water. In case of eye contact, flush
eyes with water for 10-15 minutes. SEEK IMMEDIATE MEDICAL
CARE.

If swallowed, DO NOT INDUCE VOMITING.

SECTION V Fire and Explosion Data

Flashpoint: 265°F (129.43°C) COC
Autoignition Temperature: NA
LEL: NA
UEL: NA
Fire Fighting Procedures: SCBA may be required.
Extinguishing Media: CO2, Dry Chemical, Foam
Unusual Fire & Explosion Hazards: Water may cause frothing.

SECTION VI Accidental Release Measures

SPILL/RELEASE INSTRUCTIONS

Eliminate all sources of ignition. Contain with earthen like or
petroleum absorbent material. Remove with grounded suction
pump to salvage container. Remove all contaminated materials.

SECTION VII Handling & Storage Information

Keep away from all ignition sources (e.g. heat, flame, sparks,
strong oxidizers). Bond and ground container.

SECTION VIII Exposure Controls/Personal Protection

Engineering Controls: No
Local Exhaust: To control vapors.
Mechanical Ventilation: For Confined Spaces.
Respiratory Protection: NIOSH approved organic vapor
respirator.
Eye Protection: Chemical goggles or face shield.
Glove Protection: PVC/equivalent resistant glove.
Work/Hygienic Practices: Always minimize body contact.
Wash areas of body contact
promptly. Use a PVC/equivalent
resistant apron where splash
potential exists.

SECTION IX Physical & Chemical Properties

Physical Appearance: Water white liquid
Product Odor: Negligible
Specific Gravity: <1
Solubility in Water: Insoluble
Boiling Point: 470°F 243.31°C
Freezing Point (F): NA
Melting Point (F): 30°F -1.11°C
Vapor Pressure: <0.1
Reference: mmHg@70°F

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SECTION X Stability & Reactivity Information

Stability:	Stable
Hazardous Polymerization:	Oxidizers
Materials to Avoid:	Heat & Flame
Hazardous Decomposition:	Carbon Monoxide and other petroleum decomposition products.

SECTION XI Disposal Consideration

Waste Management: Per Federal, State and local laws.

SECTION IX Transportation Information

Proper Shipping Name:	NOT A DOT REGULATED MATERIAL (Packaging in excess of 3500 gal require an OIL SPILL prevention and response plan per 49 CFR 1).
Hazard Class:	NA
UN/NA Number:	NA
Packaging Group:	NA

All hazard precautions given in this data brochure must be observed.
This brochure is for the unburnt LiquiSmoke Only. Test Data is available for LiquiSmoke "smoke" by contacting Hurco Technologies.

LAST ISSUE DATE:
01/10/07

Questions Concerning LiquiSmoke
(8:00-5:00 Central Time) M-F
Please Call: 1-800-888-1436

SECTION XIII Regulatory Information

Hazardous under SARA Section a311:	Yes
Fire Hazard:	No
Sudden Release:	No
Immediate:	No
Reactive Hazard:	No
Delayed:	Yes

SARA Section 313 Listed Components: None

SECTION IX Other Information

NFPA 704M Rating

NFPA Fire Code:	1
NFPA Health Code:	1
NFPA Reactivity Code:	0
NFPA Other:	Blank

The information contained in this MSDS is believed to be accurate, but is not warranted to be, whether originated with Hurco Technologies or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to the circumstances.

NFPA Key

0 = Insignificant
1 = Slight
2 = Moderate
3 = High
4 = Extreme

SECTION IX Definitions

DOT = Department of Transportation
CAS = Chemical Abstract Service
ACGIH = American Conf. Of Governmental Industrial Hygienists
OSHA = Occupational Safety and Health Administration
TLV = Threshold Limit Value
STEL = Short Term Exposure Limit
PEL = Permissible Exposure Limit
TWA = Time Weighted Average
NTP = National Toxicology Program
IARC = International Agency for Research on Cancer
LEL = Lower Explosion Limit
UEL = Upper Explosion Limit
SCBA = Self Contained Breathing Apparatus
CFR = Code of Federal Regulations
NFPA = National Fire Protection Agency
EPA = Environmental Protection Agency

FOR ADDITIONAL
NON-EMERGENCY MSDS INFORMATION CONTACT:

HURCO
TECHNOLOGIES, INC.

P.O. BOX 70, HARRISBURG, SD 57032
1-800-888-1436
Fax #: (605) 743-2465
E-mail: info@gethurco.com

LiquiSmoke Summary

LiquiSmoke Tested Safe

Please note that only people who are using LiquiSmoke will be exposed to the "raw" product. Even though LiquiSmoke is 100% safe, there may be items in the MSDS sheet that may cause concern. For example, Section IV (First Aid Measures), we are required to give these instructions although the likelihood of a user ever having any of the symptoms does not exist. What is really important on the MSDS sheet is Section III (Hazards Identification). Under "medical condition", the National Toxicology Program (NTP), the Occupational Safety and Health Administration, (OSHA) and the International Agency for Research on Cancer, (IARC) all list no medical conditions for LiquiSmoke. IARC makes special note that there are no carcinogenic dangers. To put it into perspective, some of the soda you drink can contain items considered carcinogenic; LiquiSmoke does not. You are exposed to greater dangers putting gas in your car or lawn mower than from handling LiquiSmoke.

Once the raw LiquiSmoke is vaporized, it develops different characteristics. We hired a private, nationally recognized laboratory, Maxim Technologies, Inc, who with the help of the Wisconsin Occupational Health Laboratory tested our smoke. These tests were conclusive, there are NO dangers using LiquiSmoke. In every single category, including carbon monoxide, LiquiSmoke was tested at or well below the OSHA 8 hour Permissible Exposure Limit (PEL). Since it is the smoke your customers may be exposed to, these tests will assure them that there are no health concerns. However, you will need to warn your customers that although the smoke may be safe, it exposes possible infiltration of dangerous sewer gases. They should always be warned to evacuate a premise when smoke is detected.

Finally, we had Maxim test our LiquiSmoke for staining and residue. Again the tests were conclusive; there is no staining and no residue caused by LiquiSmoke. You can rest assure that LiquiSmoke will not ruin furniture or drapery.

1. A summary of the scientific evaluation reports produced by Maxim Technologies of Sioux Falls, South Dakota.
2. MAXIM Technologies, Inc. cover letter and report. (.pdf) (531.6 KB)
3. MSDS for LiquiSmoke (.pdf) (201.5 KB)
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