Material Safety Data Sheet

NFPA

HMIS

Health Hazard	**1**
Fire Hazard	**3**
Reactivity	**0**

Issuing Date 13-October-2010 **Revision Date** 22-Dec-2010 **Revision Number** 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name STIHL MOTOMIX™

Product Code TR-1270

Manufactured by:
Omni Specialty Packaging
10399 S. Hwy 1
Shreveport, LA 71105
Phone: 1 (318) 524-1100

Emergency Telephone Number
CHEMTREC
1 (800) 424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Light Green **Physical State** Liquid **Odor** Mild

Potential Health Effects

Principal Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion

Acute Toxicity

Eyes Irritating, and may result in injure eye tissue if not removed promptly.

Skin Substance minimally irritating upon direct contact.

Inhalation Inhalation of this material can cause irritation of the nose, cough, sore throat, headache, dizziness, and unconsciousness.

Ingestion Do not ingest. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, labored breathing, vomiting and unconsciousness.

Chronic Effects

Prolonged or repeated exposure may have effects on the central nervous system and defat the skin.

Benzene may have effects on the bone marrow and immune system, resulting in a decrease of blood cells.

Naphthalene may have effects on the blood resulting in chronic hemolytic anemia. Naphthalene may have effects on the eye resulting in cataracts.

Exposure to toluene and xylene may enhance hearing damage caused by exposure to noise.

Aggravated Medical Conditions Personnel with pre-existing skin disorders should avoid contact with this product.

Environmental Hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula Mixture

Chemical Name	CAS-No	Weight %
Petroleum Distillates,	8002-05-9	0-100
Toluene	108-88-3	≤0.5
Cyclohexane	110-82-7	0-10
Hexane	110-54-3	0-10
Butane	106-97-8	0-10
Ethylbenzene	100-41-4	≤0.5
Isobutane	75-28-5	0-40
Isopentane	78-78-4	0-40
Xylene	1330-20-7	≤0.5
1,2,4-Trimethylbenzene	95-63-6	≤0.5
Cumene	98-82-8	≤0.5
Methyl Tert-Butly Ether	1634-04-4	0-1
Naphthalene	91-20-3	≤0.5
Benzene	71-43-2	≤0.5

4. FIRST AID MEASURES

Eye Contact Flush with large amount of water for 15 minutes. After initial flushing, remove contacts if possible and continue flushing. Get medical attention if eye irritation develops or persists.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention immediately if irritation develops.

Inhalation If inhaled, remove to fresh air. If unconscious, trained personnel should give artificial respiration or give oxygen. Get medical attention if cough or other symptoms develop.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Contact physician or poison control center immediately.

Notes to Physician Swallowing this liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

5. FIRE-FIGHTING MEASURES

Flammable Properties:

Flash Point	-40°C/F
Suitable Extinguishing Media	Water Fog, Carbon dioxide (CO_2), Alcohol-resistant foam, dry chemical, or water spray
Unsuitable Extinguishing Media	Not Available
Hazardous Combustion Products	Not Available
Explosion Data	
Sensitivity to Mechanical Impact	Sensitive.
Sensitivity to Static Discharge	Sensitive.
Protective Equipment and Precautions for Firefighters	Wear positive pressure self-contained breathing apparatus (SCUBA). Use water to cool containers exposed to flames. Structural firefighters' protective clothing will only provide limited protection. Mist or sprays may be flammable below the product normal flash point.

NFPA **Health Hazard** 1 **Flammability** 3 **Stability** 0 **Physical and Chemical Hazards** -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. If spilled, take caution, as material can cause surfaces to become very slippery.
Methods for Containment	Dike far ahead of liquid spill for later disposal.
Methods for Cleaning Up	Pick up free liquid for recycle and/or disposal. Residual liquid and/or solid can be absorbed on inert material.
Evacuation Procedures	
Large Spill	Consider initial downwind evacuate for at least 300 meters (1000 feet).
Fire	If tank, rail car or tank car is involved in a fire, isolate for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions.
Reporting Requirements	Spills that enter a water body must be reported immediately to the USEPA's National Response Center at (800)546-2972. Check with your local and state regulators regarding their reporting requirements.

7. HANDLING AND STORAGE

Handling	Do not pressure, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. Ground and bond all containers when transporting. See NFPA 30 and OSHA 1910.106 – flammable and combustible liquids.
Storage	Store away from heat, sparks, and flames. Store in a cool, dry place with good ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name / CAS#	ACGIH TWA	OSHA TWA	NIOSH IDLH
Petroleum Distillates, 8002-05-9	500ppm	500ppm	N/A
Naphtha, Petroleum, Full Range Alkylate 64741-64-6	N/A	500ppm (As petroleum Distillates Naphtha, Rubber Solvents)	N/A
Toluene 108-88-3	20ppm	200ppm	N/A
Cyclohexane 110-82-7	100ppm	300ppm	N/A
Hexane 110-54-3	50ppm	500ppm	N/A
Natural Gasoline 8006-61-9	300ppm	N/A	N/A
Butane 106-97-8	1000ppm	N/A	N/A
Cyclopentane 287-92-3	600ppm	N/A	N/A
Ethylbenzene 100-41-4	100ppm	100ppm	N/A
Hexene 25264-93-1	50ppm (as 1-Hexene)	N/A	N/A
Heptane 142-82-5	400ppm	N/A	N/A
Isobutane 75-28-5	100ppm	N/A	N/A
Isopentane 78-78-4	600ppm	N/A	N/A
Octane 11-65-9	300ppm	500ppm	N/A
Octene 25377-83-7	300ppm (as Trimethyl pentane	N/A	N/A
Solvent Naphtha, Petroleum, Heavy Aromatic 64742-94-5	N/A	500ppm (As petroleum Distillates Naphtha, Rubber Solvents)	N/A
Solvent Naphtha, Petroleum, Light Aromatic 64742-95-6	N/A	500ppm (As petroleum Distillates Naphtha, Rubber Solvents)	N/A
Xylene 1330-20-7	100ppm	100ppm	N/A
Trimethylbenzenes 25551-13-7	25ppm	N/A	N/A
1,2,4-Trimethylbenzene 95-63-6	25ppm	N/A	N/A
1,3,5-Trimethylbenzene 108-67-8	25ppm	N/A	N/A
Cumene 98-82-8	50ppm	50ppm	N/A
Methyl Tert-Butly Ether 1634-04-4	50ppm	N/A	N/A
Naphthalene 91-20-3	10ppm	N/A	N/A
Benzene	2.5ppm (TWA)	N/A	N/A

Engineering Measures Use only with adequate ventilation.

Personal Protective Equipment

Eye/Face Protection Wear chemical goggle with side-shields. Full face-shield to be worn during emergencies.

Skin and Body Protection As needed to prevent repeated skin contact. Solvent resistant gloves should be worn as well as a chemical suit.

Respiratory Protection When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light Green	**Odor**	Mild
Physical State	Liquid	**pH**	N/A
Flash Point	-40°C/F	**Autoignition Temperature**	N/A
Explosion Limits	N/A	**Flammability Limits in Air**	N/A
Specific Gravity	53 -61°API	**Solubility**	Negligible
Evaporation Rate	N/A	**Vapor Pressure**	6.8 – 9.5 psi
Vapor Density	Not Determined	**Density**	0.7038

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Open Flame and strong oxidizing agents.

Conditions to Avoid Heat, flames, and sparks. Prevent build-up of electrostatic charge by grounding.

Hazardous Decomposition Products Decomposition and combustion products may include smoke, carbon dioxide, carbon monoxide, hydrocarbons, and fumes.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORAMTION

Toxicology Data

Compound Name	CAS#	Test-Species-Results	
Toluene	108-88-3	Oral LD50- Rat: 5000 mg/kg	
Cyclohexane	110-82-7	Oral LD50- Rat: 29.82 mg/kg	
Hexane	110-54-3	Oral LD50- Rat: 43.5 mg/kg	
Natural Gasoline	8006-61-9	Oral LD50- Rat: 14 g/kg	
Butane	106-97-8	Inhalation LD50-Rat: 658mg/L/4Hr	
Ethylbenzene	100-41-4	Oral LD50- Rat: 3500 mg/kg	
Heptane	142-82-5	Inhalation LD50-Rat:103g/m3/4Hr	
Isobutane	75-28-5	Inhalation LD50-Rat:570,000 ppm/15 min	
Isopentane	78-78-4	Inhalation LD50-Mouse: 1000mg/L1Hr	
Octane	11-65-9	Inhalation LD50-Rat:118 g/L/4 Hr	
Xylene	1330-20-7	Oral LD50- Rat: >3500 mg/kg	
Trimethylbenzenes	25551-13-7	Oral LD50- Rat: 8790 mg/kg	
1,2,4-Trimethylbenzene	95-63-6	Oral LD50- Rat: 3550 mg/kg	
1,3,5-Trimethylbenzene	108-67-8	IP LD 100 –Rat:1.5 -2.0 g/kg	
Cumene	98-82-8	Oral LD50- Rat: 2.91 g/kg	
Methyl Tert-Butly Ether	1634-04-4	Oral LD50- Rat: 4 gm/kg	
Benzene	71-43-2	Oral LD50- Rat: 3306 mg/kg	
Naphthalene	91-20-3	Oral LD50- Rat: 2.6 g/kg	

Chronic Toxicity

Chronic Toxicity Prolonged exposure to this material may have effects on the central nervous system and defat the skin.

Carcinogenicity Cancer Hazard.

Target Organ Effects Respiratory system, Eyes, Skin, GI tract, Central nervous system (CNS)

12. ECOLOGICAL INFORMATION

Environmental Hazards: This product may be harmful to the environment. Bioaccumulation may occur.

Ecological Data

Compound Name	CAS#	Test-Species-Results	
Toluene	108-88-3	LC 50 – Cancer Magister: 28mg/L/96 Hr; LC	
Cyclohexane	110-82-7	LC 50 – fathead Minnow: 93mg/L/24 Hr;	
Hexane	110-54-3	LC 50 – Daphnia Magna >50mg/L/24 Hr; LC 50- Goldfish: 4mg/L 24 Hr	
Natural Gasoline	8006-61-9	LC 50 – Oncorhynchus Mykiss: 16 mg/L/96 Hr; EC	
Ethylbenzene	100-41-4	50 – Carassius Auratus: 99.4mg/L/96 Hr; LC 50- Mysidopsis Bahia: 87.6 mg/L/96 Hr; LC 50 – Pimephales Promelas: 42.3 mg/L/96 Hr	
Heptane	142-82-5	LC 50 – Carassius Aratus: 4 mg/L/ 96 Hr; LC	
Isopentane	78-78-4	LC 50 – Oncorhynchus Mykiss: 3.1 mg/L/96 Hr	
Octane	11-65-9	LC 50 – Daphnia Magna 0.38 mg/L/24 Hr	
Xylene	1330-20-7	LC 50 – Daphnia Magna 150 mg/L/24 Hr; EC 50- Chlorococcales: 100 mg/L/24 Hr; LC 50 – Palaemonetes Pugio: 14 mg/L/24 Hr	
Trimethylbenzenes	25551-13-7	LC 50 – Palaemonetes Pugio: 7 mg/L/24 Hr	
1,2,4-Trimethylbenzene	95-63-6	EC 50 – Daphnia Magna: 30 mmol/m3/48 Hr; LC 50 – Pimephales Promelas 7.7 mg/L/96 Hr	
1,3,5-Trimethylbenzene	108-67-8	EC 50 – Daphnia Magna:: 50mg/L/24 Hr	
Cumene	98-82-8	EC 50 – Daphnia Magna: 0.6 ppm/48 Hr; LC 50 – Pimephales Promelas: 6.32 mg/L/96 Hr; Oral LD 50 – Agelaiua Phoeniceus: 98 mg/kg	
Benzene	71-43-2	LC 50 – Cancer Magister: 108 ppm/96 Hr; LC 50- Crangon Franciscorum: 20 mg/L/96 Hr; LC 50 Morone Saxatilis: 5. – 11 mg/L/96; LC 50 – Palemonetes Pugio: 27 ppm/96 Hr	
Naphthalene	91-20-3	LC 50 – Oncorhynchus Gorbuscha: 1.4 mg/L/96 Hr; EC 50 – Pandalus Goniurus: 2.2 mg/L/96 Hr; EC 50 – Pimephales Promelas: 6.35 mg/L/48 Hr	

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations. Keep this product out of sewers and waterways. Recover or recycle if possible.

Contaminated Packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

This material is U.S Department of Transportation (DOT) regulated material.

D.O.T. Shipping Name: Gasoline

UN Number: UN 1203

Product RQ (LBS): 100 Consumer Commodity ORM-D

D.O.T. Placard: Flammable

Package Class: II

15. REGULATORY INFORMATION

U.S. Federal Regulations

Consult OSHA Benezene Standard found in 29 CFR 1910.1028 for requirements related to employee training, workplace monitoring, ect

This material or all of its components are listed on the inventory or Existing Chemical Substances under the Toxic Substance Control Act (TSCA) or are exempt from reporting.

This material or all of its components are listed on the Canadian Domestic List (DSL) or Non Domestic Substances List (NDSL).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

If spilled into navigable waters it is reportable to National Response Center, 800-424-8802. Reportable Quantity = Oil Sheen present on navigable water surface. (40 CFR 116; 401.15)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65

Warning: This product contains substances know to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Florida

No information available

Massachusetts RTK

No information available

Minnesota RTK

No information available

New Jersey RTK

No information available

Pennsylvania RTK

This product contains product components that are cited on the Pennsylvania Special Hazardous Substance list.

Illinois DOL TSL

No information available

International Regulations

Mexico – Grade No information available.

Canada No information available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
D2B Toxic materials

16. OTHER INFORMATION

Prepared By	Juan Parker
Issuing Date	13-October-2010
Revision Date	22-December-2010
Revision Note	Not applicable

Disclaimer
The information provided on this MSDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Not all components are present in finished product.

End of MSDS