Material Safety Data Sheet

Rule 66 Mineral Spirits



Product and Company Identification 1.

Product name : Rule 66 Mineral Spirits **Supplier** : Barton Solvents, Inc.

1920 NE Broadway PO Box 221

Des Moines, IA 50306-0221

(515) 265-7998

Material uses : Coatings: Paint remover.

Consumer products: Manufacture of floor polishes.

Industrial applications: Dry cleaning agent.

Code : 82006000/96001100 **Date Revised** : 8/31/01: 11/3/09 Barton Solvents, Inc. Responsible name

: CHEMTREC (800) 424-9300 In case of emergency

2 Hazards Identification

Physical state : Liquid.

Odor : Hydrocarbon.

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Emergency overview : WARNING!

> FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. POSSIBLE CANCER HAZARD - CONTAINS

MATERIAL WHICH MAY CAUSE CANCER, BASED ON ANIMAL DATA.

Flammable liquid. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Avoid contact with skin and clothing. Contains material that can cause target organ damage. Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed

and sealed until ready for use.

Routes of entry : Eye contact. Inhalation. Ingestion.

Potential acute health effects

: Inhalation of the spray or mist may produce severe irritation of respiratory tract, Inhalation

characterized by coughing, choking or shortness of breath.

Ingestion Aspiration hazard if swallowed. Can enter lungs and cause damage.

Skin May cause skin irritation. **Eyes** : May cause eye irritation.

Potential chronic health effects

Chronic effects : Contains material that can cause target organ damage.

: Contains material which may cause cancer, based on animal data. Risk of cancer Carcinogenicity

depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. : No known significant effects or critical hazards. Fertility effects

Target organs Contains material which causes damage to the following organs: lungs, mucous

membranes, brain, skin, eyes, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, the

reproductive system, liver, heart, ears.

2. Hazards Identification

Medical conditions aggravated by overexposure

Skin contact

Inhalation

Ingestion

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3. Composition/Information on Ingredients

Medium Aliphatic Solvent Naphtha (M)	64742-88-7	
2) 1,2,4-Trimethylbenzene	95-63-6	3.5
3) Dimethylbenzene	1330-20-7	2.2
4) Ethyl Benzene	100-41-4	0.55

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First Aid Measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water
-	for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical
	attention immediately.

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

: Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-Fighting Measures

Flammability of the product : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Extinguishing media

Protection of first-aiders

Notes to physician

Suitable : Use dry chemical, CO₂, water spray (fog) or foam.

Not suitable : Do not use water jet.

Special exposure hazards
 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

 Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

: Vapor may travel considerable distance to source of ignition and flash back. (Xylenes (mixed))

: No additional remark.

Special remarks on fire hazards

Hazardous combustion

products

Special remarks on explosion hazards

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6. Accidental Release Measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

7. Handling and Storage

Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls/Personal Protection

Product name Exposure limits

Medium Aliphatic Solvent Naphtha (M) ACGIH TLV (United States).

TWA: 100 ppm

OSHA PEL (United States).

TWA: 100 ppm

1,2,4-Trimethylbenzene ACGIH TLV (United States).

TWA: 25 ppm

Dimethylbenzene ACGIH TLV (United States).

TWA: 100 ppm STEL: 150 ppm

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Exposure Controls/Personal Protection 8.

OSHA PEL (United States).

TWA: 100 ppm

ACGIH TLV (United States). Ethyl Benzene

TWA: 100 ppm STEL: 125 ppm

OSHA PEL (United States).

TWA: 100 ppm

Recommended monitoring

procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Physical and Chemical Properties 9

Physical state : Liquid.

Flash point : Closed cup: 42.222°C (108°F). (Tagliabue.)

: Lowest known value: 464°C (867.2°F) (Dimethylbenzene). **Auto-ignition temperature**

Flammable limits : Greatest known range: Lower: 1.1% Upper: 7% (Dimethylbenzene)

Color : Colorless to light yellow.

Odor : Hydrocarbon.

Not applicable.

Boiling/condensation point : Lowest known value: 138.5°C (281.3°F) (Dimethylbenzene). Weighted average:

159.84°C (319.7°F)

Not available.

Relative density : Weighted average: 0.8 (Water = 1)

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9. Physical and Chemical Properties

Vapor pressure : Highest known value: 0.8 kPa (6 mm Hg) (at 20°C) (Dimethylbenzene). Weighted

average: 0.05 kPa (0.38 mm Hg) (at 20°C)

Vapor density : Highest known value: 4.8 (Air = 1) (Medium Aliphatic Solvent Naphtha (M)). Weighted

average: 4.77 (Air = 1)

Volatility : 100% (v/v)

Evaporation rate: Highest known value: 0.6 (Dimethylbenzene) Weighted average: 0.46compared with

Butyl acetate.

VOC : 100 (%)

Solubility Easily soluble in the following materials: methanol, diethyl ether.

Soluble in the following materials: acetone.

Insoluble in the following materials: cold water, hot water, n-octanol.

10. Stability and Reactivity

Stability : The product is stable.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid : Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization

: Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions of reactivity

Flammable in presence of open flames and sparks.

Slightly flammable to flammable in presence of heat.

Non-flammable in presence of shocks, of oxidizing materials, of reducing materials, of combustible materials, of organic materials, of metals, of acids, of alkalis, of moisture.

Extremely explosive in the presence of the following materials or conditions: open

flames, sparks and static discharge.

Non-explosive in the presence of the following materials or conditions: heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials,

organic materials, metals, acids, alkalis and moisture.

11. Toxicological Information

Acute toxicity

Conclusion/Summary: No additional remark.

Chronic toxicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Narcotic effect; may cause nervous system disturbances. (Xylenes (mixed))

Classification

Product/ingredient nameACGIHIARCEPANIOSHNTPOSHAMedium Aliphatic Solvent Naphtha (M)A54----DimethylbenzeneA54-----Ethyl Benzene-2B-----

Mutagenicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

12. Ecological Information

Environmental effects

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Conclusion/Summary

: Not available.

Biodegradability

Conclusion/Summary

: No additional remark.

Toxicity of the products of

: The product itself and its products of degradation are not toxic.

biodegradation

13. Disposal Considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1268	Petroleum Distillates, N.O.S., Combustible Liquid	Combustible liquid.	III		No additional remark.

PG*: Packing group

15. Regulatory Information

HCS Classification : Combustible liquid

Carcinogen

Target organ effects

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Rule 66 Mineral Spirits: Fire hazard, Immediate (acute) health hazard, Delayed (chronic)

health hazard

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

Form R - Reporting : 1,2,4-Trimethylbenzene : 1,2,4-Trimethylbenzene : 1,30-20-7 : 2.2

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15. Regulatory Information

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name Cancer Reproductive No significant risk Maximum

<u>level</u> <u>acceptable dosage</u>

level

Ethyl Benzene Yes. No. No. No.

United States inventory : United States inventory (TSCA 8b): All components are listed or exempted.

(TSCA 8b)

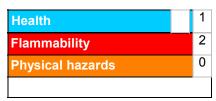
16. Other Information

Label requirements : FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. CONTAINS MATERIAL THAT

CAN CAUSE TARGET ORGAN DAMAGE. POSSIBLE CANCER HAZARD - CONTAINS

MATERIAL WHICH MAY CAUSE CANCER, BASED ON ANIMAL DATA.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection : Association (U.S.A.)

Health 0 0 Instability
Special

Other special : Format Change, 08-31-01; MSDS Update 11/3/09

considerations

Date of printing : 11/3/2009.

Date of issue : 11/3/2009.

Date of previous issue : No previous validation.

Version : 1

V Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.