

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 01/27/2009

Reviewed on 01/27/2009

1 Identification of substance**Product details****Trade name:** 5252M

Application of the substance / the preparation: Cleaner solvent

Manufacturer/Supplier:Kester
800 W. Thorndale Ave.
Itasca, IL 60143Tel.(847) 297-1600
Fax.(847) 390-9338**Information department:****2 Hazards identification****WHMIS Hazard Symbols****Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.

Has a narcotizing effect.

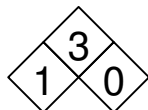
Highly flammable.

May cause sensitisation by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful: may cause lung damage if swallowed.

Vapours may cause drowsiness and dizziness.

NFPA ratings (scale 0 - 4)

Health = 1

Fire = 3

Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	1
FIRE	3
REACTIVITY	0

Health = 1

Fire = 3

Reactivity = 0

GHS label elements**Danger**

2.6/2 - Highly flammable liquid and vapour.

**Danger**

3.6/1B - May cause cancer.

3.10/1 - May be fatal if swallowed and enters airways.

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**Warning**

3.4/1 - May cause an allergic skin reaction.

3.8/3 - May cause drowsiness or dizziness.

4.1/3 - Harmful to aquatic life with long lasting effects.

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTER or doctor/physician if you feel unwell.

Specific treatment (see label).

Do NOT induce vomiting.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use for extinction: CO₂, powder or water spray.

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 in accordance with local/regional/national/international regulations.

3 Composition/Data on components**Chemical characterization**

Description: Mixture of the substances listed below with nonhazardous additions.

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Dangerous components:			
8052-41-3	Stoddard solvent	Danger:  3.5/1B, 3.6/1B, 3.10/1 Warning:  2.6/3	50-100%
67-63-0	propan-2-ol	Danger:  2.6/2 Warning:  3.3/2A, 3.8/3	10-25%

4 First aid measures**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:** Induce vomiting, if person is conscious. Seek medical help.**5 Fire fighting measures****Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Aliphatic aldehydes

Protective equipment: Wear self-contained respiratory protective device.**6 Accidental release measures****Person-related safety precautions:**

Keep away from ignition sources

Ensure adequate ventilation

Measures for environmental protection: Do not allow product to reach sewage system or any water course.**Measures for cleaning/collecting:**

Absorb with clay, dry sand, or other inert material. Do not use combustible materials such as sawdust. Place in a chemical waste container.

7 Handling and storage**Handling:****Information for safe handling:**

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Store away from oxidizing agents.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

8052-41-3 Stoddard solvent

PEL	2900 mg/m ³ , 500 ppm
REL	Short-term value: C 1800* mg/m ³ Long-term value: 350 mg/m ³ *15-min
TLV	525 mg/m ³ , 100 ppm

67-63-0 propan-2-ol

PEL	980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: (1230) mg/m ³ , (500) ppm Long-term value: (983) mg/m ³ , (400) ppm NIC-200; 491; 400; 984; A 4

Additional information:

PEL = Permissible Exposure Limit (OSHA)

REL = Recommended Exposure Limit (NIOSH)

TLV = Threshold Limit Value (ACGIH)

OSHA = Occupational Safety and Health Administration

ACGIH = American Conference of Governmental Industrial Hygienists

NIOSH = National Institute for Occupational Safety and Health

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Breathing equipment:

When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.

Protection of hands:



Protective gloves

Material of gloves:

Nitrile rubber, NBR

Natural rubber, NR

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*Penetration time of glove material:**The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.***Eye protection:***Tightly sealed goggles**Safety glasses***9 Physical and chemical properties****General Information**

Form: *Liquid*
Color: *Colorless*
Odor: *Alcohol-like*

Change in condition

Melting point/Melting range: *Undetermined.*
Boiling point/Boiling range: *82 °C (180 °F)*

Flash point: *16 °C (61 °F)*

Danger of explosion: *Product is not explosive. However, formation of explosive air/vapor mixtures are possible.*

Explosion limits:

Lower: *2.0 Vol %*
Upper: *12.0 Vol %*

Density at 20 °C (68 °F): *0.845 g/cm³*

Solubility in / Miscibility with

Water: *Fully miscible.*

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: *No decomposition if used according to specifications.*

Materials to be avoided: *Strong acids, strong oxidizers.*

Dangerous reactions *No dangerous reactions known.*

Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

Aldehydes

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11 Toxicological information**Acute toxicity:****Primary irritant effect:***on the skin: Irritant to skin and mucous membranes.**on the eye: Irritating effect.**through inhalation:**Fumes during use may irritate mucous membranes and respiratory system. High concentrations can cause headache, dizziness, narcosis, and nausea.**through ingestion: May cause gastrointestinal irritation.***Sensitization:** *Sensitization possible through skin contact.***Additional toxicological information:***The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant***12 Ecological information****General notes:***Do not allow product to reach ground water, water course or sewage system.**Harmful to aquatic organisms***13 Disposal considerations****Product:****Recommendation:***Must not be disposed of together with household garbage. Do not allow product to reach sewage system.**Disposal must be made according to official regulations.***Uncleaned packagings:****Recommendation:** *Disposal must be made according to official regulations.***14 Transport information****DOT regulations:***Hazard class: 3**Identification number: UN1993**Packing group: II**Proper shipping name (technical name): FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), STODDARD SOLVENT)**Label: 3***Land transport ADR/RID (cross-border):****ADR/RID class:** *3 Flammable liquids***Danger code (Kemler):** *33***UN-Number:** *1993*

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Packaging group: II
Description of goods: 1993 FLAMMABLE LIQUID, N.O.S., special provision 640D
 (ISOPROPANOL (ISOPROPYL ALCOHOL), STODDARD SOLVENT)

Maritime transport IMDG:

IMDG Class: 3
UN Number: 1993
Label 3
Packaging group: II
EMS Number: F-E,S-E
Marine pollutant: No
Propper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL),
 STODDARD SOLVENT)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1993
Label 3
Packaging group: II
Propper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL),
 STODDARD SOLVENT)

UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S., 3, II**15 Regulations**

USA The following information relates to product regulation specific to the USA.

SARA (Superfund Amendments and Reauthorization Act)

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

67-63-0 | propan-2-ol

TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

California Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

Carcinogenicity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

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<i>IARC (International Agency for Research on Cancer)</i>		
67-63-0	<i>propan-2-ol</i>	3
5989-27-5	<i>(R)-p-mentha-1,8-diene</i>	3
<i>NTP (National Toxicology Program)</i>		
<i>None of the ingredients is listed.</i>		
<i>NIOSH-Ca (National Institute for Occupational Safety and Health)</i>		
<i>None of the ingredients is listed.</i>		
<i>OSHA-Ca (Occupational Safety & Health Administration)</i>		
<i>None of the ingredients is listed.</i>		

CANADA: The following information relates to product regulation specific to Canada.

Workplace Hazardous Materials Identification (WHMIS):

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

WHMIS Classification:

B2

D2B

EUROPEAN UNION

The following information relates to product regulation specific to the directives of the European Union.

Risk phrases:

Highly flammable.

May cause sensitisation by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful: may cause lung damage if swallowed.

Vapours may cause drowsiness and dizziness.

Safety phrases:

Keep locked up and out of the reach of children.

Avoid contact with skin and eyes.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Wear suitable gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Avoid exposure - obtain special instructions before use.

16 Other information

The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Kester extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Material Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Material Safety Data Sheet as a source for hazard information.

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernent le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

USA