# SAFETY DATA SHEET



### 1. Identification

Product identifier R-56
Other means of identification None.

Recommended use Ag Product - Adjuvant

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Wilbur Ellis Company

Address Wilbur Ellis Company - Agribusiness Division

8131 W. Grandbridge Blvd, Suite 200

Kennewick, WA 99336

**United States** 

**Telephone** Branded Products Information (800) 500-1698

E-mail SDS@WilburEllis.com

Emergency phone number Chemtrec - Domestic (800) 424-9300 Chemtrec - International +1 703-741-5970

# 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 3Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1

Carcinogenicity

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. Suspected of

causing cancer.

**Precautionary statement** 

**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, and hot surfaces. - No smoking. Keep container tightly closed. Use explosion-proof electrical, ventilating, lighting, and process equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection, and

Category 2

face protection.

Response IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. If in

eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. In case of fire: Use

appropriate media as described in Section 5 for extinction.

Storage Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal** Dispose of contents and container in accordance with government regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Material name: R-56 sps us

Chemical name	Common name and synonyms	CAS number	%
Proprietary Surfactant Blend Component 1		Proprietary	30 - < 40
Proprietary Surfactant Blend Component 2		Proprietary	20 - < 30
Proprietary Surfactant Blend Component 3		Proprietary	20 - < 30
Solvent Naphtha (Petroleum), Heavy Aromatic		64742-94-5	5 - < 10
Solvent Naphtha (Petroleum), Light Aromatic		64742-95-6	5 - < 10
1,2,4-Trimethylbenzene		95-63-6	1 - < 3
Other components below reportable leve	els		< 0.2

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get Skin contact

medical attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Flammable liquid and vapor.

#### Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

### Occupational exposure limits

116	Thresh	~14 1	imit '	ممناملا
11.7.	11111111111111			values

Components	Туре	Value	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	

# **Biological limit values**

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency

shower must be available when handling this product.

No biological exposure limits noted for the ingredient(s).

## Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** Clear amber liquid

Physical state Liquid. **Form** Liquid. Amber Color Odor Bland

**Odor threshold** Not available.

5 - 7 Нα pH concentration

Melting point/freezing point Not available. Initial boiling point and boiling Decomposes

range

Flash point 134.0 °F (56.7 °C) Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Not available.

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Vapor pressure Not available. Not available. Vapor density Not available. Relative density

Solubility(ies)

Solubility (water) Emulsifiable Not available. **Partition coefficient** 

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity**  $> 20.5 \text{ mm}^2/\text{s}$ 104 °F (40 °C) Viscosity temperature

Other information

Density 8.26 lb/gal Percent volatile 10 - 14 % 77 °F (25 °C) Percent volatile

temperature

# 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the Conditions to avoid

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye damage.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

# Information on toxicological effects

### **Acute toxicity**

Components	Species	Test Results
1,2,4-Trimethylbenzene (C/	AS 95-63-6)	
Acute		
Dermal		
LD50	Rat	3440 mg/kg, 24 Hours
Inhalation		
LC50	Mouse, Rat	2000 - 9833 mg/m3, 12 Hours
	Rat	10200 mg/m3, 4 Hours
Oral		
LD50	Rat	6000 mg/kg
		4 - 3440 mg/kg
Proprietary Surfactant Blen	d Component 3 (CAS Proprietary)	
Acute		
Oral		
LD50	Rat	300 - 2000 mg/kg
Solvent Naphtha (Petroleur	m), Heavy Aromatic (CAS 64742-94-5)	
Acute		
Dermal		
LD50	-	> 2000 mg/kg
	Rabbit	> 4000 mg/kg, 24 Hours
	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	-	> 7.5 mg/l, 6 Hours
	Rat	> 6.03 mg/l, 4 Hours
		> 5.68 mg/l, 4 Hours
		> 2.7 mg/m3, 4 Hours
Oral		
LD100	Rat	5000 mg/kg
LD50	Rat	5800 mg/kg
Solvent Naphtha (Petroleur	m), Light Aromatic (CAS 64742-95-6)	
Acute		
Dermal		
LD50	Rabbit	> 3750 mg/kg, 24 Hours
		> 3000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5240 mg/m3, 4 Hours
		> 5170 mg/m3, 4 Hours
		> 5.1 mg/l, 4 Hours

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**Species Test Results** Components

Oral

LD50 Rat > 5570 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

Not available. Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not available.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

> 5.07 mg/l

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

contents and container in accordance with government regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

### 14. Transport information

DOT

Not regulated as dangerous goods.

**DOT BULK BULK** 

**UN number** 

**UN proper shipping name** Combustible Liquid, N.O.S. (Aromatic Petroleum Distillate)

Transport hazard class(es)

Class Combustible Liquid

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Ш Packing group

Special precautions for user Not regulated when transported by road in a non-bulk package. Read safety instructions, SDS

and emergency procedures before handling.

**IATA** 

**UN** number UN1993

UN proper shipping name Flammable liquid, n.o.s. (Aromatic Petroleum Distillate) Transport hazard class(es)

Class 3 Subsidiary risk **Packing group** Ш

**Environmental hazards** No.

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

Forbidden.

aircraft

Cargo aircraft only Forbidden.

**IMDG** 

**UN** number UN1993

UN proper shipping name Transport hazard class(es) Flammable Liquid, N.O.S. (Aromatic Petroleum Distillate), MARINE POLLUTANT

**Class** 3 Subsidiary risk 3 Label(s) Ш Packing group

**Environmental hazards** 

Yes Marine pollutant

Not available. **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

#### DOT Bulk packaging type



IATA; IMDG



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### Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

# 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

No

# SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
1.2.4-Trimethylbenzene	95-63-6	1 - < 3	

# Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US** state regulations

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

## US. Massachusetts RTK - Substance List

1,2,4-Trimethylbenzene (CAS 95-63-6)

### US. New Jersey Worker and Community Right-to-Know Act

1,2,4-Trimethylbenzene (CAS 95-63-6)

# US. Pennsylvania Worker and Community Right-to-Know Law

1,2,4-Trimethylbenzene (CAS 95-63-6)

Solvent Naphtha (Petroleum), Heavy Aromatic (CAS 64742-94-5)

### **US. Rhode Island RTK**

1,2,4-Trimethylbenzene (CAS 95-63-6)

### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Oxirane (CAS 75-21-8)

Propylene Oxide (CAS 75-56-9)

Listed: July 1, 1987

Listed: October 1, 1988

### US - California Proposition 65 - CRT: Listed date/Developmental toxin

Oxirane (CAS 75-21-8) Listed: August 7, 2009

# US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Oxirane (CAS 75-21-8) Listed: February 27, 1987

### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Oxirane (CAS 75-21-8) Listed: August 7, 2009

#### International Inventories

Country(s) or region Inventory name

On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Vac

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

**Issue date** 10-27-2014

Version # 01

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expressed or implied regarding the completeness or continuing accuracy of the information

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himself that he has all current data relevant to his particular use.

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