

# **JEFFTREAT® AF-61**

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1.0 01/11/2016 400001003707 Date of first issue: 01/11/2016

#### **SECTION 1. IDENTIFICATION**

Product name : JEFFTREAT® AF-61

# Manufacturer or supplier's details

Company name of supplier : Huntsman International LLC

Address : P.O. Box 4980 The Woodlands,

TX 77387

United States of America

Telephone : TechInfo: (281) 719-7780

E-mail address of person responsible for the SDS

: MSDS@huntsman.com

Emergency telephone : Chemtrec: (800) 424-9300 or (703) 527-3887

#### Recommended use of the chemical and restrictions on use

Recommended use : Surfactant

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS Label element**

Not a hazardous substance or mixture.

Precautionary Statements : Prevention:

No Haz - Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and

any legal requirements.

#### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

# **Hazardous ingredients**

No hazardous ingredients

#### **SECTION 4. FIRST AID MEASURES**

General advice : Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical



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advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off with plenty of water.

Remove contaminated clothing and shoes.

Get medical attention if irritation develops and persists.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: None known.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: No data is available on the product itself.

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No hazardous combustion products are known

Specific extinguishing

methods

: No data is available on the product itself.

Further information : Standard procedure for chemical fires.

Special protective equipment

for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Evacuate personnel to safe areas.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.



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Methods and materials for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Isocyanates

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : 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.

Hand protection

Remarks : Impervious gloves

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time.

Eye protection : Safety glasses with side-shields

Ensure that eyewash stations and safety showers are close

to the workstation location.

Skin and body protection : 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.

Protective suit

Hygiene measures : General industrial hygiene practice.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**



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Appearance : liquid

Color : clear

Odor : slight

Odor Threshold : No data is available on the product itself.

pH : 7

Boiling point : 141 °C

Flash point : 229.4 °C

Method: closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Upper explosion limit : No data is available on the product itself.

Lower explosion limit : No data is available on the product itself.

Vapor pressure : < 0.001333 hPa (20 °C)

Relative vapor density : 1

Relative density : 1.01

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : No data is available on the product itself.

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Autoignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Viscosity

Viscosity, kinematic : 175 mm2/s (40 °C)

Self-Accelerating

decomposition temperature

(SADT)

: No data is available on the product itself.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.



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Possibility of hazardous

reactions

: Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : No data available

Hazardous decomposition

products

: Acids Aldehydes

> Carbon dioxide (CO2) Carbon monoxide

Ketones

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

exposure

Information on likely routes of : No data is available on the product itself.

**Acute toxicity** 

: No data available Acute oral toxicity

: No data available Acute inhalation toxicity

: No data available Acute dermal toxicity

Acute toxicity (other routes of : No data available

administration)

# Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitization

No data available

No data available Assessment:

Germ cell mutagenicity

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

Carcinogenicity

No data available

Carcinogenicity -Assessment

: No data available

**IARC** No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.



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**OSHA**No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Effects on fertility : No data available

Effects on fetal development : No data available

Reproductive toxicity -

Assessment

: No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Repeated dose toxicity

No data available

Repeated dose toxicity -

Assessment

: No data available

**Aspiration toxicity** 

No data available

**Experience with human exposure** 

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

**Neurological effects** 

No data available



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### **Further information**

**Product:** 

Remarks: No data available

# **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Toxicity to fish : No data available

Toxicity to daphnia and other : No data available

aquatic invertebrates

Toxicity to algae : No data available

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: No data available

M-Factor (Chronic aquatic

toxicity)

: No data available

Toxicity to bacteria : No data available

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial

organisms

: No data available

**Ecotoxicology Assessment** 

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil No data available

Other organisms relevant to

the environment

: No data available

Further information:



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No data available

Persistence and degradability

Biodegradability : No data available

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Bioaccumulation : No data available

Partition coefficient: n-

octanol/water

: No data available

Mobility in soil

Mobility : No data available

Distribution among

environmental compartments

: No data available

Stability in soil : No data available

Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available



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**Endocrine disrupting** 

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological information - Product

Global warming potential

(GWP)

: No data available

: No data available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

# International Regulation

## IATA

Not regulated as a dangerous good

#### **IMDG**

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

#### **DOT Classification**

Not regulated as a dangerous good

### **SECTION 15. REGULATORY INFORMATION**

TSCA - 5(a) Significant New

: Not relevant

Use Rule List of Chemicals



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# **EPCRA - Emergency Planning and Community Right-to-Know**

## **CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ETHYLENE OXIDE (EO)	75-21-8	10	*
PROPYLENE OXIDE (PO)	75-56-9	100	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

California Prop 65 WARNING! This product contains a chemical known in the

State of California to cause cancer.

ethylene oxide 75-21-8 methyloxirane 75-56-9

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive

harm.

ethylene oxide 75-21-8

#### The ingredients of this product are reported in the following inventories:

CH INV : The mixture contains substances listed on the Swiss Inventory

TSCA : On TSCA Inventory

DSL All components of this product are on the Canadian DSL. **AICS** On the inventory, or in compliance with the inventory **NZIoC** On the inventory, or in compliance with the inventory : On the inventory, or in compliance with the inventory **ENCS** : On the inventory, or in compliance with the inventory **ISHL KECI** : On the inventory, or in compliance with the inventory **PICCS** : On the inventory, or in compliance with the inventory **IECSC** : On the inventory, or in compliance with the inventory

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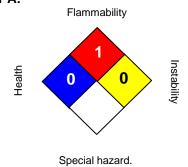
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#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA:



#### HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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