

# **TERMIX® 5270**

Version Revision Date: SDS Number: Date of last issue: -

1.0 10/15/2015 400001011930 Date of first issue: 10/15/2015

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

Product name : TERMIX® 5270

### 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 : TechInfo: (281) 719-7780

E-mail address of person responsible for the SDS

Telephone

: MSDS@huntsman.com

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

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

Recommended use : Agrochemical

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

**GHS Classification** 

Flammable liquids : Category 4

Skin corrosion : Category 1

Serious eye damage : Category 1

**GHS Label element** 

Hazard pictograms



Signal Word : Danger

Hazard Statements : H227 Combustible liquid.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary Statements : **Prevention:** 

P210 Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT



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induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER or doctor/ physician.

P305 + P351 + P338 + P310 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/ physician.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards

None known.

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

Substance / Mixture : Mixture

### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Alcohols, C10-16, ethoxylated, phosphates	68909-65-9	60 - 100
Phosphoric acid	7664-38-2	7 - 13
1-Butanol	71-36-3	3 - 7

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

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Do not leave the victim unattended.

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

advice.

If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.



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In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

: None known.

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

Suitable extinguishing media : Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet

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 : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

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.

Ensure adequate ventilation.

In case of inadequate ventilation wear respiratory protection.

Environmental precautions : Prevent product from entering drains.



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Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Neutralize with chalk, alkali solution or ammonia. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

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

Advice on protection against

fire and explosion

: Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of

ignition.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : No smoking.

Keep in a well-ventilated place. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Do not store near acids.

Keep away from oxidizing agents. Keep away from strong bases. Keep away from strong acids. Keep away from metals.

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

### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Phosphoric acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1



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		TWA	1 mg/m3	OSHA P0
		STEL	3 mg/m3	OSHA P0
1-Butanol	71-36-3	TWA	20 ppm	ACGIH
		С	50 ppm 150 mg/m3	NIOSH REL
		TWA	100 ppm 300 mg/m3	OSHA Z-1
		С	50 ppm 150 mg/m3	OSHA P0

#### Hazardous components without workplace control parameters

Ingredients	CAS-No.
Alcohols, C10-16, ethoxylated, phosphates	68909-65-9

#### 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

The suitability for a specific workplace should be discussed

with the producers of the protective 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 : Eye wash bottle with pure water

Tightly fitting safety goggles.

Wear face-shield and protective suit for abnormal processing

problems.

Ensure that eyewash stations and safety showers are close

to the workstation location.

Skin and body protection : impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

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

Appearance : liquid

Color : amber, clear

Odor : mild



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

pH : 1-3

Melting point : -12.22 °C

Freezing point -12.22 °C

Boiling point : 104 °C

Flash point : > 72 °C

Method: Pensky-Martens 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 : 0.1238357 hPa (40 °C)

Relative vapor density : No data is available on the product itself.

Relative density : 1.1

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : soluble

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 : 400 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.

Possibility of hazardous : Vapors may form explosive mixture with air.

reactions No decomposition if stored and applied as directed.



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Conditions to avoid : Heat, flames and sparks.

Hazardous decomposition

products

: Carbon dioxide (CO2) Carbon monoxide

Metal oxides

Oxides of phosphorus

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

exposure

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

**Acute toxicity** 

Acute oral toxicity - Product

: Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

**Ingredients:** 

Phosphoric acid:

Acute inhalation toxicity

: LC50 (Rat, male): 3846 mg/m3

Exposure time: 1 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

1-Butanol:

Acute inhalation toxicity

: LC50 (Rat): 24.67 mg/l Exposure time: 4 h Test atmosphere: vapor

LC0 (Rat, male and female): > 17.76 mg/l

Exposure time: 4 h Test atmosphere: vapor

Method: OECD Test Guideline 403

Acute dermal toxicity -

Product

: Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

**Product:** 

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

**Product:** 

Remarks: May cause irreversible eye damage.



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Respiratory or skin sensitization

No data available

Assessment: No data available

Germ cell mutagenicity

**Ingredients:** 

Phosphoric acid:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

1-Butanol:

Genotoxicity in vitro : Concentration: 740 μg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: negative

Result: negative

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.

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

Ingredients:

Phosphoric acid:

Effects on fertility : Species: Rat, male and female



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Application Route: Oral

Method: OECD Test Guideline 422

1-Butanol:

Species: Rat, male and female

Application Route: Oral

**Ingredients:** 

1-Butanol:

Effects on fetal development : Species: Rat, female

Application Route: Oral

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 1,454 mg/kg body weight

Result: No teratogenic effects.

Reproductive toxicity -

Assessment

: No data available

## STOT-single exposure

# **Ingredients:**

1-Butanol:

Target Organs: Respiratory Tract, Narcotic effects

Assessment: The substance or mixture is classified as specific target organ toxicant, single

exposure, category 3 with respiratory tract irritation.

### STOT-repeated exposure

No data available

#### Repeated dose toxicity

# Ingredients:

Phosphoric acid:

Species: Rat, male and female

NOAEL (No observed adverse effect level): 250 mg/kg

Application Route: Ingestion Number of exposures: 7 d Method: Subchronic toxicity

1-Butanol:

Species: Rat, male and female

NOAEL (No observed adverse effect level): 125 mg/kg

Application Route: Ingestion Method: Subchronic toxicity

Repeated dose toxicity -

: No data available

Assessment

## **Aspiration toxicity**

No data available



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**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

**Further information** 

**Product:** 

Remarks: No data available

# **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

**Ingredients:** 

Phosphoric acid:

Toxicity to fish : (Gambusia affinis (Mosquito fish)): 138 ppm

Exposure time: 96 h

(Lepomis macrochirus (Bluegill sunfish)):

Exposure time: 96 h

Remarks: see user defined free text

Ingredients:

Phosphoric acid:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 202

**Ingredients:** 

Phosphoric acid:

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus



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> subspicatus)): > 100 mg/l Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

1-Butanol:

Toxicity to algae : IC50: 8,500 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Toxicity to daphnia and other aquatic invertebrates

: No data available

M-Factor (Chronic aquatic

toxicity)

: No data available

**Ingredients:** 

Phosphoric acid:

(Chronic toxicity)

Toxicity to bacteria : IC50 (activated sludge): 270 mg/l

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available

: No data available Sediment toxicity

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: No data available

# Persistence and degradability

# Ingredients:

1-Butanol:

Biodegradability : Result: Readily biodegradable.



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Biodegradation: > 60 % Exposure time: 28 d

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

**Ingredients:** 

1-Butanol:

Partition coefficient: n-

octanol/water

: log Pow: 0.8 - 0.9

Mobility in soil

Mobility : No data available

**Ingredients:** 

1-Butanol:

Distribution among : Koc: 71.6.

environmental compartments

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** 

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

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

#### International Regulation

**IATA** 

UN/ID No. : UN 3265

Proper shipping name : Corrosive liquid, acidic, organic, n.o.s.

856

(ALKOXYLATED PHOSPHATE ESTER)

Class : 8 Packing group : III

Labels : Corrosive

Packing instruction (cargo

aircraft)

Packing instruction : 852

(passenger aircraft)



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**IMDG** 

UN number : UN 3265

Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(ALKOXYLATED PHOSPHATE ESTER)

Class : 8
Packing group : III
Labels : 8
EmS Code : F-A

EmS Code : F-A, S-B Marine pollutant : no

# 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** 

UN/ID/NA number : UN 3265

Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(ALKOXYLATED PHOSPHATE ESTER)

Class : 8 Packing group : III

Labels : CORROSIVE

ERG Code : 153 Marine pollutant : no

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

TSCA - 5(a) Significant New : Not relevant

**Use Rule List of Chemicals** 

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

#### **CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ	
		(lbs)	(lbs)
PHOSPHORIC ACID	7664-38-2	5000	*

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

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

1-Butanol 71-36-3 6 %

# 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



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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 This product does not contain any chemicals known to the

State of California to cause cancer, birth, or any other

reproductive defects.

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

CH INV : On the inventory, or in compliance with the 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

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

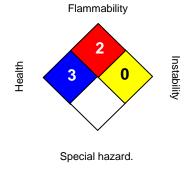
#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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

#### **Further information**

#### NFPA:



#### HMIS III:

HEALTH	3*
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE. THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN



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HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.