# SAFETY DATA SHEET



### 1. Identification

**Product identifier** Therm-Chek® F5473

Other means of identification

1362173, 1113554, 1035540 Product code

Recommended use Polymer. Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Valtris Specialty Chemicals Company name

**Address** 7050 Krick Road

Walton Hills, OH 44146

**United States** 

**Telephone** (216) 875-7284 **Customer Service** 

Website www.valtris.com

E-mail sdsquestions@valtris.com **Contact person** Valtris Technical Center CHEMTREC: 1-800-424-9300 **Emergency phone number** 

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2

> Specific target organ toxicity, repeated Category 2

exposure

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Causes serious eye irritation. May cause damage to organs through prolonged or repeated **Hazard statement** 

exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**Precautionary statement** 

Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment. Prevention

Wear eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. If eye irritation

persists: Get medical advice/attention.

Storage Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

None known. classified (HNOC)

Supplemental information 98.5% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 98.5% of the mixture consists of component(s) of unknown long-term hazards to the

aquatic environment.

### 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name  | Common name and synonyms | CAS number  | %        |
|----------------|--------------------------|-------------|----------|
| Zinc compounds |                          | *           | 60 - 70  |
| glycol ether   |                          | *           | 10 - 20  |
| TRADE SECRET   |                          | Proprietary | 2.5 - 10 |

<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.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

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

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

General information

vision. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods General fire hazards Powder. Alcohol resistant foam. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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 The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

Material name: Therm-Chek® F5473 SDS US

### 7. Handling and storage

Precautions for safe handling Provide adequate ventilation. Do not breathe mist or vapor. Avoid contact with eyes. Avoid

prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the

environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the SDS).

### 8. Exposure controls/personal protection

#### Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

| Components                   | Туре             | Value     | Form                          |
|------------------------------|------------------|-----------|-------------------------------|
| glycol ether                 | TWA              | 10 ppm    | Inhalable fraction and vapor. |
| TRADE SECRET                 | TWA              | 200 mg/m3 | Non-aerosol.                  |
| US. NIOSH: Pocket Guide to C | Chemical Hazards |           |                               |
| Components                   | Туре             | Value     |                               |
| TRADE SECRET                 | TWA              | 100 mg/m3 |                               |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

**US ACGIH Threshold Limit Values: Skin designation** 

TRADE SECRET (CAS Proprietary) Can be absorbed through the skin.

Appropriate engineering

controls

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. Provide

eyewash station.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective 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

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** 

Liquid. Physical state Liquid. **Form** Yellow Color

Characteristic. Odor **Odor threshold** Not available. Not available.

Melting point/freezing point -90.58 °F (-68.1 °C) estimated 347 °F (175 °C) estimated Initial boiling point and boiling

range

Flash point 219.2 °F (104.0 °C)

**Evaporation rate** > 1

Flammability (solid, gas) Not applicable.

Material name: Therm-Chek® F5473

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

0.7 % estimated

Flammability limit - upper

(%)

5 % estimated

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

0.05 hPa estimated Vapor pressure

Vapor density Not available. Not available. Relative density

Solubility(ies)

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

(n-octanol/water)

**Auto-ignition temperature** 410 °F (210 °C) estimated

Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

**Density** 1.21 g/cm3 estimated

**Explosive properties** Not explosive.

Combustible IIIB estimated Flammability class

**Oxidizing properties** Not oxidizing. Percent volatile 12.03 % estimated

1.06 Specific gravity

10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

toxicological characteristics

Information on toxicological effects

**Acute toxicity** 

Components **Species Test Results** 

glycol ether

Acute

**Dermal** 

LD50 Rabbit 2700 mg/kg

Material name: Therm-Chek® F5473 SDS US 4/7

| Components | Species    | Test Results |  |
|------------|------------|--------------|--|
| Oral       |            |              |  |
| LD50       | Guinea pig | 2000 mg/kg   |  |
|            | Mouse      | 2400 mg/kg   |  |
|            | Rabbit     | 2200 mg/kg   |  |
|            | Rat        | 4500 mg/kg   |  |

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

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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 This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not available.

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

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful.

#### 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

| Components   |      | Species                        | Test Results        |  |
|--------------|------|--------------------------------|---------------------|--|
| glycol ether |      |                                |                     |  |
| Aquatic      |      |                                |                     |  |
| Fish         | LC50 | Bluegill (Lepomis macrochirus) | 1300 mg/l, 96 hours |  |

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

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

glycol ether 0.56

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

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Material name: Therm-Chek® F5473

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

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Not established.

### 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

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### 15. Regulatory information

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

Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

glycol ether (CAS \*)

Zinc compounds (CAS \*)

Listed.

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)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

| Chemical name         | CAS number | % by wt. |
|-----------------------|------------|----------|
| ZINC COMPOUNDS        | *          | 60 - 70  |
| CERTAIN GLYCOL ETHERS | *          | 10 - 20  |

#### Other federal regulations

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

glycol ether (CAS \*)

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)

Not listed.

**US. Massachusetts RTK - Substance List** 

TRADE SECRET (CAS Proprietary)

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

glycol ether (CAS \*)

TRADE SECRET (CAS Proprietary)

Zinc compounds (CAS \*)

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

glycol ether (CAS \*)

TRADE SECRET (CAS Proprietary)

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

glycol ether (CAS \*)
Zinc compounds (CAS \*)

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

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Australian Inventory of Chemical Substances (AICS)

#### **International Inventories**

Australia

Canada

Country(s) or region

| Canada      | Non-Domestic Substances List (NDSL)                                    | No  |
|-------------|--|-----|
| China       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes |
| Europe      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe      | European List of Notified Chemical Substances (ELINCS)                 | No  |
| Japan       | Inventory of Existing and New Chemical Substances (ENCS)               | No  |
| Korea       | Existing Chemicals List (ECL)  | Yes |
| New Zealand | New Zealand Inventory  | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes |

<sup>\*</sup>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).

Toxic Substances Control Act (TSCA) Inventory

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

Inventory name

Domestic Substances List (DSL)

**Issue date** 11-20-2015

Version # 01

United States & Puerto Rico

**Disclaimer** Valtris Specialty Chemicals cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

Material name: Therm-Chek® F5473 sps us

On inventory (yes/no)\*

Yes

Yes

Yes