# SAFETY DATA SHEET



# 1. Identification

Product identifier Nu-Flow CT Other means of identification None.

Recommended use Ag Product - Crop Protection

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Wilbur-Ellis Company LLC
Address 16300 Christensen Rd. Ste 135

Tukwila, WA 98188

**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 hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2B

Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes eye irritation. May cause damage to organs (liver, testes, adrenal gland, kidney, and

thyroid) through prolonged or repeated exposure.

**Precautionary statement** 

**Prevention** Do not breathe mist or vapor. Wash thoroughly after handling.

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

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

medical attention.

**Storage** Store away from incompatible materials.

**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**

Chemical name	Common name and synonyms	CAS number	%
Myclobutanil		88671-89-0	20 - < 30
Glycerin		56-81-5	5 - < 10
Other components below r	eportable levels		60 - < 70

Material name: Nu-Flow CT SDS US

Percentage ranges of composition to protect confidentiality or due to batch variation.

#### 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.

Prolonged exposure may cause chronic effects.

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if **Eve contact** 

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

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Symptoms may be delayed.

General information 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

treatment needed

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters Fire fighting

equipment/instructions

Specific methods General fire hazards Do not use water jet as an extinguisher, as this will spread the fire.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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. Keep out of low areas. 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 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. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with inert absorbent material. 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

Do not breathe mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. 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. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910,1000)

Components	Туре	Value	Form
Glycerin (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

Material name: Nu-Flow CT SDS US **Biological limit values** 

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

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

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

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

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 Pale to light brown liquid

Physical state Liquid. **Form** Liquid. Color Light brown Odor Odorless. **Odor threshold** Not available. Hq 7.2 1% solution Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Flash point > 212.0 °F (> 100.0 °C)

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(a/)

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Dispersible

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity 314 cSt @40C

Other information

Density 8.96 lb/gal Specific gravity 1.07

Material name: Nu-Flow CT SDS US

### 10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

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. Prolonged

inhalation may be harmful.

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

**Eve contact** Causes eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

toxicological characteristics Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

### Information on toxicological effects

### **Acute toxicity**

Components	Species	Test Results
Glycerin (CAS 56-81-5)		
<u>Acute</u>		
Dermal		
LD50	Guinea pig	45 ml/kg, Days
Inhalation		
Vapor		
LC50	Rat	4655 mg.min/l, 7 Hours
Oral		
LD50	Guinea pig	>= 10000 mg/kg
	Mouse	23000 mg/kg
		20.81 ml/kg
	Rat	27200 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 eye irritation.

Respiratory or skin sensitization

Not available. Respiratory sensitization

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

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

mutagenic or genotoxic.

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

### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Material name: Nu-Flow CT SDS US

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

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 available.

**Chronic effects** 

Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

### 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.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential Mobility in soil

No data available. 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. Dispose of

contents and container in accordance with government regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

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

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, if applicable, even

after container is emptied.

### 14. Transport information

# DOT

Not regulated as dangerous goods.

#### IATA

UN3082 **UN number** 

**UN proper shipping name** 

Transport hazard class(es)

Environmentally hazardous substance, liquid, n.o.s. solution (Myclobutanil)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** Yes **ERG Code** 9L

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN number** UN3082

**UN proper shipping name** 

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. SOLUTION (Myclobutanil), MARINE POLLUTANT

Transport hazard class(es)

9 Class Subsidiary risk Packing group Ш **Environmental hazards** 

> Marine pollutant Yes

Material name: Nu-Flow CT SDS US EmS F-A, S-F

Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

1. Not established.

IATA; IMDG



### 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. This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

This product is exempted from TSCA because it is solely for FIFRA regulated use.

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 regulated.

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

Material name: Nu-Flow CT SDS US

6/7

1932 Version #: 02 Revision date: 09-26-2017 Issue date: 02-23-2016

SARA 313 (TRI reporting)

Chemical name **CAS** number % by wt. MYCI OBUTANII

[.ALPHA.-BUTYL-.ALPHA.-(4-CHLOROPHENYL)-1H-1,

2,4-TRIAZOLE-1-PROPANENITRILE]

#### 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)

### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Glycerin (CAS 56-81-5)

Other Flavoring Substances with OSHA PEL's

20 - < 30

### **US** state regulations

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

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

88671-89-0

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

Myclobutanil (CAS 88671-89-0) Listed: April 16, 1999 US - California Proposition 65 - CRT: Listed date/Male reproductive toxin Myclobutanil (CAS 88671-89-0) Listed: April 16, 1999

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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).

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

Issue date 02-23-2016 09-26-2017 **Revision date** 

Version # 02

Health: 1 NFPA ratings

Flammability: 0 Instability: 0

NFPA ratings



**Disclaimer** This information was developed from information on the constituent materials. No warranty is

> expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and Wilbur-Ellis disclaims all liability for reliance thereon. The user should satisfy

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

Material name: Nu-Flow CT SDS US

1932 Version #: 02 Revision date: 09-26-2017 Issue date: 02-23-2016