

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2017

Reviewed on 05/03/2017

### 1 Identification

- **Product identifier**
- **Trade name:** LANTHANE 317CF
- **Article number:** 26260
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Coventya, Inc.  
4639 Van Epps Rd.  
BROOKLYN HEIGHTS, OH 44131  
USA  
s.polojack@coventya.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
During transport or after business hours: CHEMTREC 1-800-424-9300  
During normal opening times: +1 (216) 351-1500

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



Acute Tox. 4 H302 Harmful if swallowed.  
Acute Tox. 4 H332 Harmful if inhaled.  
Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



- **Signal word** Warning
- **Hazard-determining components of labeling:**  
chromium trichloride  
sodium fluoride
- **Hazard statements**  
Harmful if swallowed or if inhaled.  
Causes serious eye irritation.
- **Precautionary statements**  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear eye protection / face protection.

(Contd. on page 2)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2017

Reviewed on 05/03/2017

**Trade name: LANTHANE 317CF**

(Contd. of page 1)

*IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.*

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*Rinse mouth.*

*If eye irritation persists: Get medical advice/attention.*

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**

HEALTH	3	Health = 3
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

10025-73-7	chromium trichloride	10-25%
7631-99-4	sodium nitrate, containing in the dry state more than 16,3 per cent by weight of nitrogen	10-25%
7681-49-4	sodium fluoride	2.5-<10%

### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** Immediately call a doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2017

Reviewed on 05/03/2017

**Trade name: LANTHANE 317CF**

(Contd. of page 2)

- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

#### · PAC-1:

10025-73-7	chromium trichloride	4.6 mg/m <sup>3</sup>
7631-99-4	sodium nitrate, containing in the dry state more than 16,3 per cent by weight of nitrogen	4.1 mg/m <sup>3</sup>
7757-82-6	sodium sulphate	9.8 mg/m <sup>3</sup>
7681-49-4	sodium fluoride	17 mg/m <sup>3</sup>
127-09-3	sodium acetate	11 mg/m <sup>3</sup>

#### · PAC-2:

10025-73-7	chromium trichloride	15 mg/m <sup>3</sup>
7631-99-4	sodium nitrate, containing in the dry state more than 16,3 per cent by weight of nitrogen	45 mg/m <sup>3</sup>
7757-82-6	sodium sulphate	110 mg/m <sup>3</sup>
7681-49-4	sodium fluoride	90 mg/m <sup>3</sup>
127-09-3	sodium acetate	120 mg/m <sup>3</sup>

#### · PAC-3:

10025-73-7	chromium trichloride	87 mg/m <sup>3</sup>
7631-99-4	sodium nitrate, containing in the dry state more than 16,3 per cent by weight of nitrogen	270 mg/m <sup>3</sup>

(Contd. on page 4)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2017

Reviewed on 05/03/2017

**Trade name: LANTHANE 317CF**

		(Contd. of page 3)
7757-82-6	sodium sulphate	650 mg/m <sup>3</sup>
7681-49-4	sodium fluoride	1,100 mg/m <sup>3</sup>
127-09-3	sodium acetate	700 mg/m <sup>3</sup>

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

#### 10025-73-7 chromium trichloride

PEL	Long-term value: 0.5 mg/m <sup>3</sup> as Cr
REL	Long-term value: 0.5 mg/m <sup>3</sup> as Cr; See Pocket Guide App. C
TLV	Long-term value: 0.5 mg/m <sup>3</sup> as Cr

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 5)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2017

Reviewed on 05/03/2017

**Trade name: LANTHANE 317CF**

(Contd. of page 4)

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling.

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	Dark green
Odor:	Acidic
Odor threshold:	Not determined.

· **pH-value at 20 °C (68 °F):** 2.7 - 3.3

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)

· **Density at 20 °C (68 °F):** 1.240 - 1.270 g/cm<sup>3</sup> (10.348 - 10.598 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water: Fully miscible.

(Contd. on page 6)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2017

Reviewed on 05/03/2017

Trade name: LANTHANE 317CF

(Contd. of page 5)

- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 0.0 %
  - Water:** 60 - 70 %
  - VOC content:** 0.0 g/l / 0.00 lb/gl
- **Solids content:** 30 - 40 %
- **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

#### 10025-73-7 chromium trichloride

Oral	LD50	1870 mg/kg (rat)
Inhalative	LC50/4 h	0.03 mg/l (mouse)

#### 7631-99-4 sodium nitrate, containing in the dry state more than 16,3 per cent by weight of nitrogen

Oral	LD50	3236 mg/kg (rat)
------	------	------------------

#### 7681-49-4 sodium fluoride

Oral	LD50	52 mg/kg (rat)
------	------	----------------

- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful

(Contd. on page 7)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2017

Reviewed on 05/03/2017

**Trade name: LANTHANE 317CF**

(Contd. of page 6)

### · Carcinogenic categories

#### · IARC (International Agency for Research on Cancer)

10025-73-7	chromium trichloride	3
7681-49-4	sodium fluoride	3

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

### · Toxicity

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

### · Behavior in environmental systems:

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

### · Additional ecological information:

#### · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### · Waste treatment methods

#### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### · Uncleaned packagings:

· **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

### · UN-Number

· **DOT, ADN, IMDG, IATA** not regulated

### · UN proper shipping name

· **DOT, ADN, IMDG, IATA** not regulated

(Contd. on page 8)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2017

Reviewed on 05/03/2017

**Trade name: LANTHANE 317CF**

(Contd. of page 7)

- |   |                 |
|---|-----------------|
| <b>· Transport hazard class(es)</b>   |                 |
| <b>· DOT, ADN, IMDG, IATA</b>   |                 |
| <b>· Class</b>  | not regulated   |
| <b>· Packing group</b>  |                 |
| <b>· DOT, IMDG, IATA</b>  | not regulated   |
| <b>· Environmental hazards:</b>   | Not applicable. |
| <b>· Special precautions for user</b>   | Not applicable. |
| <b>· Stowage Category</b>   | B               |
| <b>· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable. |
| <b>· UN "Model Regulation":</b>   | not regulated   |

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

**· Section 355 (extremely hazardous substances):**

10025-73-7	chromium trichloride
------------	----------------------

**· Section 313 (Specific toxic chemical listings):**

10025-73-7	chromium trichloride
------------	----------------------

**· TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**· Proposition 65**
**· Chemicals known to cause cancer:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories**
**· EPA (Environmental Protection Agency)**

10025-73-7	chromium trichloride	D
------------	----------------------	---

**· TLV (Threshold Limit Value established by ACGIH)**

10025-73-7	chromium trichloride	A4
------------	----------------------	----

7681-49-4	sodium fluoride	A4
-----------	-----------------	----

(Contd. on page 9)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/03/2017

Reviewed on 05/03/2017

**Trade name: LANTHANE 317CF**

(Contd. of page 8)

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
chromium trichloride  
sodium fluoride
- **Hazard statements**  
Harmful if swallowed or if inhaled.  
Causes serious eye irritation.
- **Precautionary statements**  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear eye protection / face protection.  
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Rinse mouth.  
If eye irritation persists: Get medical advice/attention.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.
- **Date of preparation / last revision** 05/03/2017 / -
- **Abbreviations and acronyms:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)

(Contd. on page 10)

## Safety Data Sheet

*acc. to OSHA HCS*

Printing date 05/03/2017

Reviewed on 05/03/2017

**Trade name: LANTHANE 317CF**

(Contd. of page 9)

VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

US