

## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1 Product Name: **COLOREX HCY4**  
Chemical Name: 2-((2-(2-Hydroxyethoxy)-4-nitrophenyl)amino)ethan-1-ol  
Other Names/synonyms: HC Yellow 4  
CAS no.: 59820-43-8  
EC no.: 611-897-9/428-840-7
- 1.2 Relevant identified uses of the substance or mixture and uses advised against: Hair dye  
No specific uses advised against are identified
- 1.3 Details of the supplier of the safety data sheet  
Supplier/Manufacturer: **TELUCA INC.**  
414 Eagle Rock Ave  
Suite 103  
West Orange, NJ 07052  
  
Telephone: 1-973-232-0002  
Email address: info@teluca.com
- 1.4 Emergency telephone: CHEMTREC 1-800-424-9300 (USA/Canada)

## **SECTION 2: Hazard Identification**

- 2.1 Classification of the substance or mixture according to Regulation (EC) no. 1272/2008 (CLP)

Acute Toxicity: Category 4 (oral)  
Eye Irritation: Category 2

- 2.2 Label requirements according to Regulation (EC) no. 1272/2008 (CLP)

Pictograms:



Signal word:

WARNING

Hazard Statement:

H302

Harmful if swallowed.

H319

Causes serious eye irritation.

**Precautionary Statements:**

P261	Avoid breathing dust/fumes/gas/mist/vapors/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301 + P312	If SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell
P305 + P351 + P338	If in EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do Continue rinsing
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P337 + P313	If eye irritation persists: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to hazardous or special waste collection point

- 2.3 Other hazards according to Regulation (EC) no. 1272/2008 (CLP) Not available

**SECTION 3: Composition/Information on Ingredients**

3.1	Substances	
	Product Name:	<b>COLOREX HCY4</b>
	Chemical nature:	Hair dye
	Chemical name:	2-((2-(2-Hydroxyethoxy)-4-nitrophenyl)amino)ethan-1-ol
	CAS no.:	59820-43-8
	EC no.:	611-897-9/428-840-7
	Weight %:	100 %

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

- 3.2 Mixtures Not applicable

## SECTION 4: First-Aid Measures

- 4.1 Description of first aid measures  
If adverse health effects develop  
seek medical attention.
- Inhalation: Call emergency medical service. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and provide artificial respiration. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Skin contact: Call a poison center or doctor if you feel unwell. If itching or burning of the skin, immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Wash and isolate contaminated clothing.
- Eye contact: Flush immediately with large amounts of water for at least 15 minutes under running water with eyelids held open. Get medical attention. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Ingestion: Harmful if swallowed. Do not induce vomiting unless directed by medical personnel. If swallowed, seek medical advice immediately and show the container or label. Rinse mouth with plenty of water. Keep victim warm and quiet. Treat symptomatically and supportively.
- 4.2 Most important symptoms and effects, both acute and delayed symptoms: The most important known symptoms and effects are described in the labelling (see Section 2) and/or in Section 11. Further important symptoms and effects are so far not known.
- Hazards: No hazard is expected under intended use and appropriate handling.
- 4.3 Indication of any immediate medical attention and special treatment needed: Treat symptomatically. If in doubt, get medical attention promptly.

## SECTION 5: Fire-Fighting Measures

- 5.1 Extinguishing media
- Suitable extinguishing media: Water spray, dry powder, carbon dioxide, foam
- Unsuitable extinguishing media for safety reasons: No data available

- 5.2 Special hazards arising from the substance or mixture harmful vapors: Irritating or toxic substances may be emitted upon thermal decomposition. Evolution of fumes/fog which have the potential to be explosive if not controlled. The substances/groups of substances (carbon & nitrogen oxides) can be released in case of fire or thermal decomposition.
- 5.3 Advice for fire-fighters: Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Do not flush down sewers or other drainage systems. Exposed fire fighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## **SECTION 6: Accidental Release Measures**

- 6.1 Personal precautions, protective equipment and emergency procedures: Avoid contact with skin, eyes and clothing. Avoid dust formation. Depending on extent of release, consider the need for fire fighters/emergency responders with adequate personal protective equipment for cleaning up. Do not eat, drink, or smoke while cleaning up. Use a self-contained respirator or a filtering face mask. Wear protective clothing, safety glasses and impervious gloves. Ensure adequate ventilation. Avoid breathing dust/vapors, mist or gas. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
- 6.2 Environmental precautions: Keep away from living quarters. Do not discharge into drains/surface waters/groundwater/contact with soil.
- 6.3 Methods and material for containment and cleaning up: For small amounts: Eliminate all ignition sources. Absorb on fire retardant, liquid-absorbing material (treated with sawdust, diatomaceous earth, sand). Use clean non-sparking tools to collect absorbed material. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current laws and regulations.
- 6.4 Reference to other sections Information regarding exposure controls/personal protection and disposal considerations can be found in Section 8 and 13.

## **SECTION 7: Handling and Storage**

- 7.1 Precautions for safe handling: Avoid contact with skin, eyes or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, and smoking. Remove contaminated clothing and clean before re-sue. Destroy all items than cannot be

decontaminated, such as belts and shoes. Keep away from heat and flame. Use non-sparking tools.

Protection against fire and explosion: Avoid dust formation. Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a tightly closed original container in a dry, cool and well-ventilated place. Do not allow exposure to light, moisture or heat. Store away from oxidizing agents. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage.

7.3 Specific end use(s): For the relevant identified use(s) listed in Section 1 the advice mentioned in this Section 7 is to be observed.

## SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Components with occupational exposure limits:  
PNEC

Contains no substances with occupational exposure limit values

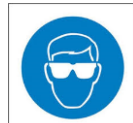
Chemical Safety Assessment not yet performed due to registration timelines

DNEL

Chemical Safety Assessment not yet performed due to registration timelines

8.2 Exposure controls:

Personal protective equipment



Respiratory protection:

If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. For higher concentrations, unknown concentrations and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134. They should be tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

Avoid skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots or full body protection. A safety shower should be located in the work area.

Eye protection:	Wear chemical safety goggles and face shield. They should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Have eye-wash stations available were eye contact can occur.
Body protection:	Body protection must be chosen based on level of activity and exposure.
General safety and hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work.
Environmental exposure controls:	Local exhaust ventilation may be necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces. Use explosion-proof ventilation equipment.

## **SECTION 9: Physical and Chemical Properties**

9.1	Information on basic physical and chemical properties	
	Form:	Powder
	Color:	Bright yellow
	Odor:	Faint
	pH value:	Not determined
	Melting Point:	143 - 147 °C
	Boiling Point:	>230 °C
	Flash Point:	Not determined
	Evaporation rate:	The product is a non-volatile solid
	Flammability:	Not flammable
	Flammability of Aerosol Products:	Not applicable, the product does not form flammable aerosols
	Lower explosion limit:	Not determined
	Upper explosion limit:	Not determined
	Ignition temperature:	Not determined
	Vapor pressure:	Not determined
	Relative vapor density (air):	The product is a non-volatile solid
	Solubility in water:	1.39g/l in water @ 21 °C
	Partitioning coefficient n-octanol/water (Log Pow):	Log Pow = 1.08 @20 °C
	Self-ignition:	Not self-igniting
	Thermal decomposition:	Not determined
	Explosion hazard:	Not explosive
	Fire promoting properties:	Not fire-propagating
9.2	Other information	
	Self-heating ability:	It is not a substance capable of spontaneous heating.

Minimum ignition energy:	Not determined
Radioactivity:	Not radioactive for transport purposes
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section. No further information available.

### **SECTION 10: Stability and Reactivity**

10.1	Reactivity:	No hazardous reactions if stored and handled as prescribed/indicated.
	Corrosion to metals:	No corrosive effect on metal.
	Formation of flammable gases:	Forms no flammable gases in the presence of water
10.2	Chemical stability:	The product is stable if stored and handled as prescribed/indicated.
10.3	Possibility of hazardous reactions:	The product is stable if stored and handled as prescribed/indicated.
10.4	Conditions to avoid:	See Section 7 - Handling and storage. Avoid excessive heat, moisture and light.
10.5	Incompatible materials:	Strong acids, oxidizing agents, acid anhydrides, acid chlorides
10.6	Hazardous decomposition products:	No hazardous decomposition products known. The substances/groups of substances (carbon & nitrogen oxides) can be released in case of fire or thermal decomposition.

### **SECTION 11: Toxicological Information**

11.1	Information on toxicological effects	
	Acute toxicity:	LD50 rat (oral): 500-2000 mg/kg
	Sub-Chronic:	In a 90-day study, the NOAEL was determined to be 250 mg/kg for male rats and 500 mg/kg for female rats. The NOAEL was determined to be 750 mg/kg for mice.
	Skin corrosion/Irritation:	Mild to none
	Serious eye damage/irritation:	Mild to moderate
	Respiratory/Skin sensitization:	Non-sensitization by skin contact
	Germ cell mutagenicity:	The substance was not mutagenic in mammalian cell cultures (Mouse lymphoma tk-locus, in vitro; Mouse bone marrow micronucleus, in vivo; Rat unscheduled DNA synthesis, in vivo) but induced gene mutations in bacteria cell cultures and in mammalian cell cultures (Chinese Hamster CHO chromosome aberration, in vitro).
	Carcinogenicity:	The chemical structure does not suggest a specific alert for such an effect. Not listed – NTP, IARC, OSHA

Reproductive toxicity:	Oral doses between 50-300 mg/kg were administered daily from day 6 to day 20 of gestation. The maternal NOAEL was determined to be 50 mg/kg due to adverse effects on body weight. The developmental NOAEL was determined as 300 mg/kg, the highest dose tested.
Specific target organ toxicity (single exposure):	No data available
Repeated dose toxicity and Specific target organ toxicity (repeated exposure):	No data available
Aspiration hazard:	No data available

## **SECTION 12: Ecological Information**

12.1	Toxicity	
	Ecotoxicity:	EC50: 292-399 mg/l (48 hr., Water flea) EC50: 37.7-110.5 mg/l (72 hr., freshwater algae) EC50: >1000 mg/l (3 hr., microorganisms)
	Toxicity to fish:	LC50: 289 mg/l (96 hr., Rainbow trout)
12.2	Persistence and degradability	
	Assessment biodegradation and elimination (H2O):	No data available
	Elimination information:	No data available
12.3	Bio-accumulative potential:	No data available
12.4	Mobility in soil:	No data available
12.5	Results of PBT and vPvB assessment:	According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bio-accumulative/toxic) criteria or the vPvB (very persistent/very bio-accumulative) criteria.
12.6	Other adverse effects:	The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## **SECTION 13: Disposal Considerations**

13.1	Waste treatment methods:	Must be disposed of or incinerated in accordance with local regulations at an appropriate licensed waste disposal facility in compliance with applicable laws and regulations. Packaging: Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.
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**SECTION 14: Transport Information**

14.1	UN number:	Not regulated
14.2	UN proper shipping name:	Not regulated
14.3	Transport hazard class(es):	Not regulated
14.4	Packing Group:	Not regulated
14.5	Environmental hazards:	No, not a marine pollutant
14.6	Special precautions for user:	None known

**SECTION 15: Regulatory Information**

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.	
15.2	Cosmetic use regulation	
	SCCS/1230/09	1.5 % (w/w) – maximum concentration on Head
15.3	Chemical Safety Assessment	
	Advice on product handling can be found in Sections 7 and 8 of this safety data sheet.	
15.4	CERCLA Hazardous substance & Reportable	
	Quantity:	
	SARA 302:	Not listed
	SARA 313:	Not listed
15.5	TSCA	Not listed
15.6	NFPA Rating	
	Health:	2
	Flammability:	1
	Reactivity:	0
	Special Hazards:	None
15.7	HMIS Rating	
	Health Hazard:	2
	Flammability:	1
	Reactivity:	0
	Personal Protection:	F

## **SECTION 16: Other Information**

Revision Date: May 7, 2020

Revision: Version 4.0

Hazard Statements in Full:

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regards to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.