

Version 5.3 Revision Date 09/25/2016 Print Date 08/31/2017

a SIGMA-ALDRICH^{*}company

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers Product name	:	Noroxycodone-D3 HCI
	Product Number Brand	:	N-033 Cerilliant
1.2	Relevant identified uses of Identified uses	of th :	he substance or mixture and uses advised against Laboratory chemicals, Synthesis of substances
1.3	Details of the supplier of t	the	safety data sheet
	Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
	Telephone	:	+1 800-325-5832

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

Fax

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

: +1 800-325-5052

Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Specific target organ toxicity - single exposure (Category 1), H370 Acute aquatic toxicity (Category 3), H402 Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word



Danger

0	0
Hazard statement(s) H225 H301 + H311 + H331 H370 H412	Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled Causes damage to organs. Harmful to aquatic life with long lasting effects.
Precautionary statement(s) P210 P233 P240	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment.

P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P322	Specific measures (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Component		Classification	Concentration
Methanol			
CAS-No.	67-56-1	Flam. Liq. 2; Acute Tox. 3;	>= 90 - <= 100
EC-No.	200-659-6	STOT SE 1; H225, H301 +	%
Index-No.	603-001-00-X	H311 + H331, H370	
Registration number	01-2119433307-44-XXXX		

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature -20 - 0 °C

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Methanol	67-56-1	TWA	200.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Headache		

1	Neuros		
	Nausea		
	Dizziness		
	Eye damage		
			a Biological Exposure Index or Indices
	(see BEI® s		
	Danger of c	utaneous absorptio	on
	STEL	250.000000	USA. ACGIH Threshold Limit Values
	-	ppm	(TLV)
		FF	()
	Headache		
	Nausea		
	Dizziness		
	Eye damage		- Distantiant Francesco la descendario -
			a Biological Exposure Index or Indices
	(see BEI® s		
	Danger of cu		
	TWA	200.000000	USA. NIOSH Recommended
		ppm	Exposure Limits
		260.000000	
		mg/m3	
	Potential for	dermal absorption	ן
	ST	250.000000	USA. NIOSH Recommended
		ppm	Exposure Limits
		325.000000	
		mg/m3	
		dermal absorption	
	TWA	200.000000	USA. Occupational Exposure Limits
		ppm	(OSHA) - Table Z-1 Limits for Air
		260.000000	Contaminants
		mg/m3	
	The value in	mg/m3 is approxi	mate.
	TWA	200 ppm	USA. ACGIH Threshold Limit Values
		200 ppm	(TLV)
	Headache		
	Nausea		
	Dizziness		
	Eye damage		- Distantiant European Index on Indiana
			a Biological Exposure Index or Indices
	(see BEI® s		
	-	utaneous absorption	
	STEL	250 ppm	USA. ACGIH Threshold Limit Values
			(TLV)
	Headache		
	Nausea		
	Dizziness		
	Dizziness Eve damage	2	
	Eye damage		a Biological Exposure Index or Indices
	Eye damage Substances	for which there is	a Biological Exposure Index or Indices
	Eye damage Substances (see BEI® s	for which there is ection)	
	Eye damage Substances (see BEI® s Danger of cu	for which there is ection)	on
	Eye damage Substances (see BEI® s	for which there is ection) utaneous absorptio 200 ppm	on USA. NIOSH Recommended
	Eye damage Substances (see BEI® s Danger of cu TWA	for which there is ection) utaneous absorption 200 ppm 260 mg/m3	on USA. NIOSH Recommended Exposure Limits
	Eye damage Substances (see BEI® s Danger of cu TWA Potential for	for which there is ection) utaneous absorption 200 ppm 260 mg/m3 dermal absorption	on USA. NIOSH Recommended Exposure Limits
	Eye damage Substances (see BEI® s Danger of cu TWA	for which there is ection) taneous absorption 200 ppm 260 mg/m3 dermal absorption 250 ppm	on USA. NIOSH Recommended Exposure Limits
	Eye damage Substances (see BEI® s Danger of cu TWA Potential for	for which there is ection) taneous absorption 200 ppm 260 mg/m3 dermal absorption 250 ppm	USA. NIOSH Recommended Exposure Limits USA. NIOSH Recommended
	Eye damage Substances (see BEI® s Danger of cu TWA Potential for ST	for which there is ection) utaneous absorption 200 ppm 260 mg/m3 dermal absorption 250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits USA. NIOSH Recommended Exposure Limits
	Eye damage Substances (see BEI® s Danger of cu TWA Potential for ST Potential for	for which there is ection) utaneous absorption 200 ppm 260 mg/m3 dermal absorption 325 mg/m3 dermal absorption	USA. NIOSH Recommended Exposure Limits USA. NIOSH Recommended Exposure Limits
	Eye damage Substances (see BEI® s Danger of cu TWA Potential for ST	for which there is ection) utaneous absorption 200 ppm 260 mg/m3 dermal absorption 325 mg/m3 dermal absorption 200 ppm	USA. NIOSH Recommended Exposure Limits USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits
	Eye damage Substances (see BEI® s Danger of cu TWA Potential for ST Potential for	for which there is ection) utaneous absorption 200 ppm 260 mg/m3 dermal absorption 325 mg/m3 dermal absorption	USA. NIOSH Recommended Exposure Limits USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
	Eye damage Substances (see BEI® s Danger of cu TWA Potential for ST Potential for TWA	for which there is ection) utaneous absorption 200 ppm 260 mg/m3 dermal absorption 325 mg/m3 dermal absorption 200 ppm	USA. NIOSH Recommended Exposure Limits USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
Skin nota	tion	
TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
Skin nota	tion	
С	1,000 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Skin	·	
PEL	200 ppm 260 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Skin	·	
STEL	250 ppm 325 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Skin		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Methanol	67-56-1	Methanol	15.0000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (A	s soon as po	ssible after exposure	e ceases)
		Methanol	15 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (A	s soon as po	ssible after exposure	e ceases)

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
C)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	9.7 °C (49.5 °F)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
	ner safety information data available	

10. STABILITY AND REACTIVITY

10.1 Reactivity

9.2

- No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** Vapours may form explosive mixture with air.
- **10.4 Conditions to avoid** Heat, flames and sparks. Extremes of temperature and direct sunlight.
- **10.5** Incompatible materials No data available
- **10.6** Hazardous decomposition products Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity

No data available

Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- 12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

	DOT (US) UN number: 1230 Proper shipping name Reportable Quantity (F		Packing group: I	I		
	Poison Inhalation Haza	ard: No				
	IMDG UN number: 1230 Proper shipping name	Class: 3 (6.1) : METHANOL, SOLUTION	Packing group: I	II EMS-	No: F-E, S-D	
	IATA UN number: 1230 Proper shipping name	Class: 3 (6.1) : Methanol, solution	Packing group:	I		
15. R	EGULATORY INFORM	IATION				
	SARA 302 Compone No chemicals in this n	nts naterial are subject to the r	eporting requirem	nents of SARA Title	e III, Section 302.	
	SARA 313 Compone The following compon Methanol	nts ents are subject to reportir	ng levels establish	ned by SARA Title CAS-No. 67-56-1	III, Section 313: Revision Date 2007-07-01	
	SARA 311/312 Hazar	r ds ealth Hazard, Chronic Hea	lth Hazard			
	Massachusetts Righ	t To Know Components				
	Methanol			CAS-No. 67-56-1	Revision Date 2007-07-01	
	Pennsylvania Right	To Know Components				
	Methanol	-		CAS-No. 67-56-1	Revision Date 2007-07-01	
	New Jersey Right To	Know Components				
	Methanol			CAS-No. 67-56-1	Revision Date 2007-07-01	
		components uct contains a chemical kn cause birth defects or othe		CAS-No. 67-56-1	Revision Date 2012-03-16	

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Flam. Liq. H225	Acute toxicity Flammable liquids Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H301 + H311 +	Toxic if swallowed, in contact with skin or if inhaled
H331	
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
STOT SE	Specific target organ toxicity - single exposure

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HMIS Rating

- ··· J	
Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0
NFPA Rating	
Health hazard:	2

Health hazard: Fire Hazard: Reactivity Hazard:

Further information

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Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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