



MATERIAL SAFETY DATA

MSDS No: 05994
Date: 04/18/2000
Supersedes: 07/01/1997

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **CONAP® Dri-Purge**

SYNONYMS: None

CHEMICAL FAMILY: Nitrogen

MOLECULAR FORMULA: N₂

MOLECULAR WGT: 28.01

CYTEC INDUSTRIES INC., FIVE GARRET MOUNTAIN PLAZA, WEST PATERSON, NEW JERSEY 07424, USA

For Product Information call 1-800/652-6013. Outside the USA and Canada call 1-973/357-3193.

EMERGENCY PHONE: For emergency involving spill, leak, fire, exposure or accident call CHEMTREC: 1-800/424-9300. Outside the USA and Canada call 1-703/527-3887.

RECEIVED

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2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS

COMPONENT	CAS. NO.	%	TWA/CEILING	REFERENCE
Nitrogen	007727-37-9	100	not established	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR: Colorless, odorless gas

STATEMENTS OF HAZARD:

WARNING! CONTENTS UNDER PRESSURE

GAS REDUCES OXYGEN AVAILABLE FOR BREATHING

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE:

Refer to Section 11 for toxicology information on the OSHA regulated components of this product.

4. FIRST AID MEASURES

If symptoms occur from inhalation, remove from exposure. Administer oxygen if there is difficulty in breathing. Give artificial respiration if person is not breathing and continue until normal breathing is established. Obtain medical attention without delay.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable

FLAMMABLE LIMITS

(% BY VOL): Not applicable

AUTOIGNITION TEMP: Not applicable

DECOMPOSITION TEMP: Not available

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Use extinguishing media that is appropriate to the surrounding fire. Nitrogen is a nonflammable material that will not support combustion. It presents no unusual explosion hazard unless the compressed gas is exposed to fire; then containers may rupture violently. Use water spray to keep fire-exposed containers cool. Wear self-contained, positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Where exposure level is not known, wear NIOSH approved, positive pressure, self-contained respirator. Shut off leak if you can do so without risk. Remove leaking containers outdoors or place into a hood with good forced ventilation. Evacuate all personnel from spill or leak areas until ventilation can restore a safe oxygen level. Minor leaks can be dangerous in enclosed areas. Refer to Exposure Control Methods Section.

7. HANDLING AND STORAGE

Do not puncture or incinerate container. Keep container closed. Do not expose to heat or store at temperatures above 120 F (49 C). Use with adequate ventilation. Do not enter confined spaces unless adequately ventilated. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120 F (49 C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT (PPE)

Provide adequate general and local exhaust ventilation to prevent workplace atmospheres from becoming oxygen deficient. The minimum oxygen volume is 18%. Provide air-supplied or self-contained breathing equipment for emergency or nonroutine situations where the nitrogen level is excessive. Use a safety line and a standby worker when respirator-protected personnel enter a hazardous nitrogen-enriched area. The standby worker should have a self-contained breathing apparatus immediately available.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Colorless, odorless gas

BOILING POINT: -320 F; -196 C; Not applicable

MELTING POINT: -345 F; -209 C

VAPOR PRESSURE: Not available

SPECIFIC GRAVITY: ~0.8; (liquid)

VAPOR DENSITY: 0.967

% VOLATILE (BY WT): Not applicable

pH: Not applicable

SATURATION IN AIR (% BY VOL): Not applicable

EVAPORATION RATE: Not applicable

SOLUBILITY IN WATER: Negligible

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known

POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION. Toxicological information on the OSHA regulated components of this product is as follows:

Nitrogen is non-toxic and is classified as a simple asphyxiant by virtue of its displacement of oxygen. Symptoms of exposure depend on the degree and the duration of oxygen deficiency. They can include increased frequency and volume of breathing, increased pulse rate, muscular incoordination, fatigue, nausea, vomiting, and collapse. Inhalation of pure nitrogen atmosphere produces immediate loss of consciousness; death follows unless air/oxygen breathing can be quickly restored. Contact with liquid nitrogen or cold vapors can cause cryogenic burns (severe frostbite/freezing burns).

12. ECOLOGICAL INFORMATION

No aquatic LC50, BOD, or COD data available.

OCTANOL/H₂O PARTITION COEF.: Not applicable

13. DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the Cytec product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics." Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA "listed hazardous waste"; information contained in Section 15 of this MSDS is not intended to indicate if the product is a "listed hazardous waste." RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Cytec encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Cytec recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. Cytec has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

SHIPPING NAME:	D.O.T. SHIPPING INFORMATION NITROGEN, COMPRESSED	IMO SHIPPING INFORMATION NITROGEN, COMPRESSED
HAZARD CLASS/ PACKING GROUP:	DIVISION 2.2	2.2 —
UN NUMBER:	UN1066	1066
IMDG PAGE:	Not Applicable	2163

D.O.T. HAZARDOUS SUBSTANCES:	(PRODUCT REPORTABLE QUANTITY) Not Applicable	Not Applicable
TRANSPORT LABEL REQUIRED:	Non-Flammable Gas	Non-Flammable Gas
SHIPPING NAME:	ICAO/IATA NITROGEN, COMPRESSED	TRANSPORT CANADA NITROGEN, COMPRESSED
HAZARD CLASS:	2.2	2.2
SUBSIDIARY CLASS:	—	—
UN / ID NUMBER:	1066	1066
PACKING GROUP:	—	—
TRANSPORT LABEL REQUIRED:	Non-Flammable Gas	Non-Flammable Gas
PACKING INSTR:	PASSENGER 200 CARGO 200	Not Applicable
MAX NET QTY:	PASSENGER 75KG CARGO 150KG	Not Applicable

ADDITIONAL TRANSPORT INFORMATION

TECHNICAL
NAME (N.O.S.): Not Applicable

15. REGULATORY INFORMATION**INVENTORY INFORMATION**

- US TSCA: This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. seq.
- CANADA DSL: Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.
- EEC EINECS: All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC and its amendments.

**OTHER
ENVIRONMENTAL
INFORMATION**

The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.

COMPONENT	CAS. NO.	%	TPQ(lbs)	RQ(lbs)	S313	TSCA 12B
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This product does
not contain any
components regulated
under these sections
of the EPA

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA
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ACUTE (N) CHRONIC (N) FIRE (N) REACTIVE (N) PRESSURE (Y)
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16. OTHER INFORMATION

NFPA HAZARD RATING (National Fire Protection Association)

Fire	FIRE: Materials that will not burn.
0	HEALTH: Materials that under emergency conditions, would offer no hazard
Health 0	beyond that of ordinary combustible materials.
0 Reactivity	REACTIVITY: Materials that in themselves are normally stable, even under fire
—	exposure conditions.
Special	

REASON FOR ISSUE:

Revised Section 1

Randy Deskin, Ph.D., DABT

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