

MATERIAL SAFETY DATA SHEET
ARKOPAL N 100

Page 1

Substance key: SXR004800
Version : 1 - 6 / USARevision Date: 01/09/2009
Date of printing :05/09/2009**Section 01 - Product Information****Identification of the company:**Clariant Corporation
4000 Monroe Road
Charlotte, NC, 28205
Telephone No.: +1 704-331-7000**Information of the substance/preparation:**

Product Safety 1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: **ARKOPAL N 100**

CAS number: 9016-45-9

Synonyms: Product Has No Synonyms

Primary product use: Emulsion .polymerisation

Chemical family: Nonyl phenol polyglycol ether

Section 02 - Composition information on hazardous ingredients**Hazardous ingredients:**

Component	CAS-no. (Trade secret no.)	Concentration
Glycol ethers (SARA 313 Category), total		5 %
Nonylphenol ethoxylate	9016-45-9	100 %

Section 03 - Hazards identification**Expected Route of entry:**

Inhalation: no

Skin contact: yes

Eye contact: yes

Ingestion: no

Skin absorption: no

Health effects of exposure:

Glycol Ethers (SARA Title 313 category)

Glycol ethers (SARA 313 category) total: Glycol ethers include Mono- and Di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol, which are regulated as a chemical category under SARA section 313 regulations. The health effects of glycol ethers vary with the particular glycol ether. These effects may include irritation to the skin, eyes, respiratory tract, and mucous membranes. They may include effects on the reproductive system, including reduction of sperm count or birth defects.

Arkopal N 100

Eye contact: Causes severe eye irritation and possible eye damage. Skin contact: May result

MATERIAL SAFETY DATA SHEET
ARKOPAL N 100

Page 2

Substance key: SXR004800
Version : 1 - 6 / USARevision Date: 01/09/2009
Date of printing :05/09/2009

in mild irritation and redness. Ingestion: Can result in gastrointestinal irritation, bloating, and diarrhea.

Known effects on other illnesses: Pre-existing eye conditions may be aggravated by exposure to this product.

Listed carcinogen:
IARC: No
NTP: No
OSHA: No
Other: No

HMIS:

Health: 2*

Flammability: 1

Reactivity: 0

Personal protection: D

Section 04 - First aid measures**After inhalation:**

Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Do not give fluids if victim is unconscious.

After contact with skin:

Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

After contact with eyes:

Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

After ingestion:

If ingested, seek medical assistance immediately.

Advice to doctor / Treatment:

None known.

Section 05 - Fire fighting measures

Flashpoint: > 482 °F
Method: DIN/ISO 2592 (open cup)

Lower explosion limit: Not applicable

Upper explosion limit: Not applicable

Self ignition: Not applicable

Ignition temperature: Not applicable

Hazardous combustion products:

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Combustion gases of organic materials must in principle be graded as inhalation poisons.

MATERIAL SAFETY DATA SHEET

ARKOPAL N 100

Substance key: SXR004800
Version : 1 - 6 / USA

Revision Date: 01/09/2009
Date of printing :05/09/2009

Extinguishing media: water spray jet
foam
carbon dioxide
dry powder

Special fire fighting procedure:
Wear positive pressure self-contained breathing apparatus (SCBA) and full protective equipment.

Unusual fire and explosion hazards: Emits toxic fumes under fire conditions.

Section 06 - Accidental release measures

Steps to be taken in case of spill or leak:

Wear proper protective equipment. Contain spill. Spills should be collected as a liquid or absorbed on suitable absorbant and placed in proper containers for disposal. Do not discharge into storm drains or the aquatic environment.

Section 07 - Handling and storage

Advice on safe handling:

Avoid getting on skin or in eyes when handling product.

Further info on storage conditions:

Keep containers closed.

Section 08 - Exposure controls / personal protection

Occupational exposure limits:

Component	CAS number:	Regulatory list	Type of value	Values / Remarks
Diethylene glycol		AIHA. Workplace Environmental Exposure Levels (WEEL)	Time-weighted average (8 hour)	10 mg/m ³
Polyethylene glycols	9016-45-9	AIHA. Workplace Environmental Exposure Levels (WEEL)	Time-weighted average (8 hour)	10 mg/m ³

Respiratory protection: If airborne concentrations pose a health hazard, become irritating or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134

Hand protection: Butyl Rubber, PVC Or Neoprene.

Eye protection: Chemical splash goggles.

MATERIAL SAFETY DATA SHEET
ARKOPAL N 100

Page 4

Substance key: SXR004800
Version : 1 - 6 / USARevision Date: 01/09/2009
Date of printing :05/09/2009

- Other protective equipment:** Protective clothing to minimize skin contact should be worn. Chemically resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eyewash stations should be provided in all areas where this material is handled.
- Advice on system design:** Local ventilation recommended - mechanical ventilation may be used.
- IDLH:**
Not Determined

Section 09 - Physical and chemical properties

- Form:** Liquid, viscous
- Color:** slightly yellowish
- Odor:** slight, original odour
- pH:** 6 - 8 (20 °C, 10 g/l)
Method: DIN 53996
- Solubility in water:** (20 °C)
soluble, clear
- Soluble in ... :** fat
not tested.
- Density:** 1.05 g/cm³ (50 °C)
Method: DIN 51757
- Pourpoint :** approx. 44 °F
Method: DIN/ISO 3016
- Boiling point :** > 680 °F
Method: Calculated by Syracuse.
- Vapor pressure:** < 0 Torr (25 °C)
Method: Calculated by Syracuse.
- Bulk density:** Not applicable
- Relative vapor density:** Not applicable
- Partitioning coef. octanol/water:** 2.89
Method: Calculated by Syracuse.
- Viscosity / (dynamic):** approx. 70 mPa.s (50 °C)
Method: DIN 53015
- Viscosity / (kinematic):** not tested.

Section 10 - Stability and reactivity

MATERIAL SAFETY DATA SHEET
ARKOPAL N 100

Page 5

Substance key: SXR004800
Version : 1 - 6 / USARevision Date: 01/09/2009
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Thermal decomposition:	> 350 °C Method: DSC Source: Analogy No decomposition if used as prescribed.
Chemical stability:	Stable.
Hazardous Polymerization:	Will not occur.
Conditions to avoid:	Strong oxidizers and strong acids.

Section 11 - Toxicological information**Product information:**

Acute oral toxicity:	LD50 500 - 2,000 mg/kg (rat) Source: CESIO
Acute inhalation toxicity:	not tested.
Acute dermal toxicity:	not tested.
Skin irritation:	Non-irritating (rabbit)
Eye irritation:	Severe irritant (rabbit)

Section 12 - Ecological information**Product information:**

Biodegradation:	86 % (28 d) readily degradable Method: OECD 301 E
Fish toxicity:	LC50 1 - 10 mg/l (96 h, zebra fish) Method: OECD 203
Daphnia toxicity:	not tested.
Algae toxicity:	not tested.
Bacteria toxicity:	EC50 > 1,000 mg/l Method: fermentation tube test
Chemical oxygen demand (COD):	2,180 mg/g

Remarks:

Do not allow to enter soil, waterways or waste water

Section 13 - Disposal considerations**Waste disposal information:**

Recommended disposal is by incineration in approved facilities.

MATERIAL SAFETY DATA SHEET
ARKOPAL N 100Substance key: SXR004800
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No -- Not as sold.
RCRA number: NONE**Section 14 - Transport information****DOT** not restricted**IATA**Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Class: 9
Packing group: III
UN/ID number: UN 3082
Primary risk: 9
Remarks: Shipment permitted
Hazard inducer(s): Nonylphenol ethoxylate**IMDG**Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Class: 9
Packing group: III
UN no.: UN 3082
Primary risk: 9
Hazard inducer(s): Nonylphenol ethoxylate
Marine pollutant: Marine Pollutant
EmS: F-A S-F**Section 15 - Regulatory information****TSCA Status:**

All components of this product are listed on the TSCA Inventory.

SARA (section 311/312):Reactive hazard: no
Pressure hazard: no
Fire hazard: no
Immediate/acute: yes
Delayed/chronic: yes**SARA 313 information:**

This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372. Any such toxic chemical(s) are shown below. This information must be included in all MSDS's that are copied and distributed for this material.

Component	CAS-no. (Trade secret no.)	Concentration
Glycol ethers (SARA 313 Category), total		5 %

Clean Water Act:

Contains no known priority pollutants at concentrations greater than 0.1%.

Volatile organic compounds VOC:

MATERIAL SAFETY DATA SHEET
ARKOPAL N 100

Page 7

Substance key: SXR004800
Version : 1 - 6 / USARevision Date: 01/09/2009
Date of printing :05/09/2009

Remarks: Not Available

FDA: This product is not registered with the FDA.**Section 16 - Other information****Other precautions:**
None Known**Label information:**

WARNING!

CAUSES SEVERE EYE IRRITATION MAY CAUSE EYE DAMAGE Contains glycol ethers. Glycol Ethers may have effects on the reproductive system, including reduction of sperm count and birth defects.

Avoid breathing fumes, vapors, mists or spray. Avoid contact with skin and eyes. Use with adequate ventilation and/or respiratory protection. Wash thoroughly after handling. Keep container closed when not in use.

Eye contact: flush with water for at least 15 minutes while holding eyelids open. Seek immediate medical attention. Skin contact: wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention. Wash contaminated clothing before reuse. Ingestion: seek medical attention immediately. Inhalation: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if respiratory irritation continues.

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications. (R) and TM indicate trademarks of Clariant AG, its business partners or suppliers.