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INDEX: D61794330 CAT NO: AC423645000 PO NBR: CROSSGROVE-BETA-52714

Viscosity: 0.8 mPas @ 20 C
Boiling Point: 153 deg C (307.40&F)
Freezing/Melting Point: -61 deg C (-77.80&F)
Decomposition Temperature: Not available
Solubility in water: Soluble
Specific Gravity/Density: 0.94
Molecular Formula: C3H7NO
Molecular Weight: 73.09

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid:

Ignition sources, excess heat.

Incompatibilities with Other Materials

Strong oxidizing agents, ammonia, anhydrides, iron, phenols, isocyanates, acids (mineral, non-oxidizing, e.g. hydrochloric acid, hydrofluoric acid, muriatic acid, phosphoric acid), acids (mineral, oxidizing, e.g. chromic acid, hypochlorous acid, nitric acid, sulfuric acid), metals (alkali and alkaline, e.g. cesium, potassium, sodium), metals and metal compounds (toxic, e.g. beryllium, lead acetate, nickel carbonyl, tetraethyl lead), reducing agents (strong, e.g. aluminum carbide, chlorosilane, hydrogen phosphide, lithium hydride), carbontetrachloride, chlorinated hydrocarbons, organic materials.

Hazardous Decomposition Products

Carbon monoxide, oxides of nitrogen, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 68-12-2: LQ2100000

LD50/LC50:

RTECS: CAS# 68-12-2: Inhalation, mouse: LC50 = 9400

mg/m3/2H; Inhalation, rat: LC50 = 3421 ppm/1H; Inhalation,

rat: LC50 = 3421 ppm/3H; Inhalation, rat: LC50 = 1948 ppm/4H;

Oral, mouse: LD50 = 2900 mg/kg; Oral, rabbit: LD50 = 5 gm/kg;

Oral, rat: LD50 = 2800 mg/kg; Skin, rabbit: LD50 = 4720

mg/kg; Skin, rat: LD50 = >3.2 gm/kg;.

Carcinogenicity:

N,N-Dimethylformamide -

IARC: Group 3 (not classifiable)

Epidemiology:

No information found

Teratogenicity:

No information found

Reproductive:

No information found

Neurotoxicity:

No information found

Mutagenicity:

No information found

Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical

is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in

40 CFR Parts 261.3. Additionally, waste generators must consult state

and local hazardous waste regulations to ensure complete and accurate

classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT

Shipping Name: N,N-DIMETHYLFORMAMIDE

Hazard Class: 3

UN Number: UN2265

Packing Group: III

Canada TDG

Shipping Name: N,N-DIMETHYLFORMAMIDE

Hazard Class: 3

UN Number: UN2265

Packing Group: III

USA RQ: CAS# 68-12-2: 100 lb final RQ; 45.4 kg final RQ

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 68-12-2 is listed on the TSCA Inventory.

Health & Safety Reporting List

CAS# 68-12-2: Effective 4/13/89, Sunset 12/19/95

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

4,045

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None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 68-12-2: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 68-12-2: acute, flammable.

Section 313

This material contains N,N-Dimethylformamide (CAS# 68-12-2, 99 100%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act:

CAS# 68-12-2 is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous

Substances under the CWA.

None of the chemicals in this product are listed as Priority

Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants

under the CWA.

OSHA:

STATE

N,N-Dimethylformamide can be found on the following state right to

know lists: California, New Jersey, Pennsylvania, Minnesota,

Massachusetts.

California Prop 65

California No Significant Risk Level:

None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 61 May cause harm to the unborn child.

R 20/21 Harmful by inhalation and in contact with

skin.

R 36 Irritating to eyes.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions

before use.

S 45 In case of accident or if you feel unwell, seek

medical advice immediately (show the label where

possible).

WGK (Water Danger/Protection)

CAS# 68-12-2: 1

Canada

CAS# 68-12-2 is listed on Canada's DSL List

Canadian WHMIS Classifications: B3, D2A, D2B

This product has been classified in accordance with the hazard

criteria of the Controlled Products Regulations and the MSDS

contains all of the information required by those regulations.

CAS# 68-12-2 is listed on Canada's Ingredient Disclosure List

Section 16 - Other Information

MSDS Creation Date:

5/25/1999

Revision #5 Date

6/03/2005

The information above is believed to be accurate and represents the

best information currently available to us. However, we make no

warranty of merchantability or any other warranty, express or

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howsoever arising, even if the company has been advised of the

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