

MSDS

Material Safety Data Sheet

Date prepared: August, 29th, 2012

Date revised: N/A (first edition)

Section 1 - General Information

Chemical Name: Norethindrone solution, 100ppm
Synonyms: NA
CAS Reg. Number: 68-22-4
Catalog Number: 1ST2203-100A
Manufacturer's Name: A Chemtek, Inc.
100 Barber Avenue
Worcester, MA 01606, USA
Telephone Number: 508-471-4121
Fax Number: 508-845-9201

For R & D use only

Section 2 - Hazardous Ingredients/Identity Information

Emergency Overview

OSHA Hazards

Flammable liquids (Category 2), H225
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Eye irritation (Category 2A), H319

GHS Label elements, including precautionary statements



Pictogram

Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled
H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P201 Obtain special instructions before use.
P308 + P313 IF EXPOSED OR CONCERNED: Get medical advice/ attention.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing 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.
P280 Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/ container to an approved waste disposal plant.

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Section 3 - Hazardous Components/Identity Information

Hazardous Components	CAS #	Concentration
Acetonitrile	75-05-8	Balance
Norethindrone	68-22-4	0.01%

Section 4 - 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. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

Section 5 - Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

No data available

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Use water spray to cool unopened containers.

Section 6 - Accidental Release Measures

Personal precautions

Use personal protective equipment. 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.

Environmental precautions
product enter drains.

Prevent further leakage or spillage if safe to do so. Do not let

Methods for 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

Section 7 - Handling and Storage

Handling
explosion-proof

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use

equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage

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. Store at -20°C.

Section 8 - Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values

Personal protective equipment

Respiratory protection

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Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

Hand protection For prolonged or repeated contact use protective gloves
Eye protection Safety glasses
Hygiene measures General industrial hygiene practice

Section 9 - Physical and Chemical Properties

Appearance: Form Liquid
Color Colorless

Safety data

pH: not available
Melting point: not available
Boiling point: not available
Flash point: not available
Ignition temperature: not available
Lower explosion limit: not available
Upper explosion limit: not available
Water solubility: not available

Section 10 - Stability and Reactivity

Storage stability Stable under recommended storage conditions
Materials to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight.
Hazardous decomposition products Hazardous decomposition products formed under fire conditions. Carbon oxides. Nitrogen oxides (NO_x).

Section 11 - Toxicological Information

Acute toxicity: no data available
Other information on acute toxicity no data available
Irritation and corrosion: not available
Sensitization: not available
Respiratory or skin sensitization: not available
Potential health effects
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: Toxic if swallowed.

Section 12 - Ecological Information

Toxicity not available
Persistence and degradability not available
Bioaccumulative potential not available
Mobility in soil not available
Results of PBT and vPvB assessment not available

Section 13 - Disposal Considerations

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.

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Section 14- Transport Information

DOT Proper Shipping Name: Acetonitrile UN#: 1648 Class: 3 Packing Group: II Small quantities exempted	IATA Proper Shipping Name: Acetonitrile UN#: 1648 Class: 3 Packing Group: II Small quantities exempted
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Section 15 - Regulatory Information

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Section 16 - Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A Chemtek shall not be held liable for any damage resulting from handling or from contact with the above product.

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