

AMERICA'S CHOICE MOTOR OIL
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

EYES:	For direct contact, immediately flush eyes with plenty of water, holding eyelids apart, for 15 minutes. If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Get medical attention if irritation or pain persists.
SKIN:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain persists.
INGESTION: (SWALLOWING)	Immediately get medical attention. Do NOT induce vomiting. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs.
NOTE TO PHYSICIANS:	No specific antidote available. Treat symptomatically and supportively. Call medical emergency telephone number (see SECTION 1) for additional information.

SECTION 5: FIRE FIGHTING MEASURES
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FLASH POINT:	383°F (195°C) (minimum) Cleveland Open Cup
FLAMMABLE LIMITS IN AIR:	LOWER: 1 VOL% (based on similar materials) UPPER: 10 VOL% (based on similar materials)
AUTOIGNITION TEMPERATURE:	750°F (399°C) (approximately) (based on similar materials)
HAZARDOUS COMBUSTION PRODUCTS:	Decomposition and combustion materials may be toxic. Burning may produce aldehydes, hydrogen sulfide, alkyl mercaptans, sulfur oxides, calcium oxides, and carbon monoxide.
CONDITIONS OF FLAMMABILITY:	Heat, sparks, or flame. Product may burn, but does not ignite readily.
EXTINGUISHING MEDIA:	Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

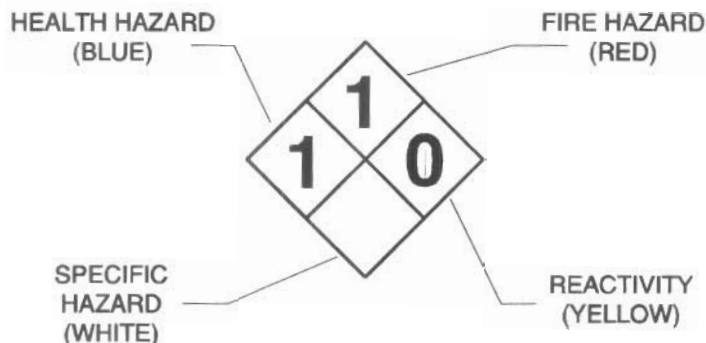
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NFPA 704

HAZARD

IDENTIFICATION:

This information is intended solely for the use of individuals trained in this system.



FIRE FIGHTING
INSTRUCTIONS:

Keep storage containers cool with water spray. Positive-pressure, self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing may provide limited protection.

FIRE AND
EXPLOSION HAZARDS:

Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Not sensitive to mechanical impact or static discharge.

EMERGENCY RESPONSE
GUIDE NUMBER:

171
Reference *North American Emergency Response Guidebook*

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Ventilate area and avoid breathing vapor or mist. Contain away from surface waters and sewers. Contain as a liquid for possible recovery or sorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal.

Additionally, for large spills: isolate hazard area. Keep unnecessary and unprotected personnel from entering. Dike far ahead of liquid spill for collection and later disposal.

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SECTION 7: HANDLING AND STORAGE

HANDLING:	Keep away from heat, sparks, or flame. Use clean tools. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes.
SHIPPING AND STORING:	Keep container tightly closed when not in use and during transport. Store container in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind. Keep containers away from heat, flame, sparks, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.
PERSONAL HYGIENE:	Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco products. Clean contaminated clothing, shoes, and protective equipment before reuse.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
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PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION:	Use NIOSH/MSHA-approved respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limits. A self-contained breathing apparatus (SCBA) and full protective equipment are required for fire emergencies. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4-M1982.
EYE PROTECTION:	Where eye contact is likely, wear safety glasses; contact lens use is not recommended.
SKIN PROTECTION:	Where skin contact is likely, wear neoprene, nitrile, or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended.

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**OTHER
PROTECTIVE
EQUIPMENT:**

Where spills and splashes are likely, wear appropriate chemical-resistant apron or other protective clothing. Clean water should be available in work areas for flushing the eyes and skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE,

APPEARANCE, AND ODOR:

Liquid, amber, petroleum odor.

ODOR THRESHOLD:

Not available.

SPECIFIC GRAVITY:

0.88 (water = 1) (approximately)

DENSITY:

7.3 lb/US gal (880 g/l) (approximately)

VAPOR DENSITY:

greater than 10 (air = 1) (based on similar materials)

VAPOR PRESSURE:

less than 0.1 mm Hg at 68°F (20°C)
(based on similar materials)

BOILING POINT:

420°F (220°C) (minimum)

FREEZING/MELTING POINT:

Not available [pour point 0°F (-18°C) (maximum)].

pH:

Not applicable.

EVAPORATION RATE:

0.001 (ethyl ether = 1) (based on similar materials)

SOLUBILITY IN WATER:

Insoluble.

MOLECULAR WEIGHT:

Not applicable.

SECTION 10: STABILITY AND REACTIVITY

STABILITY:

Stable under normal temperatures and pressures.
Avoid heat, sparks, or flame.

INCOMPATIBILITY:

Avoid oxidizing agents and/or reactive halogens.

REACTIVITY:

Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.

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**HAZARDOUS DECOMPOSITION
PRODUCTS:**

None under normal temperatures and pressures. See
also **SECTION 5: HAZARDOUS COMBUSTION
PRODUCTS.**

SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION:

Based on best current information, there is no known human sensitization associated with this product.

CARCINOGENICITY:

IARC classifies chemicals by their carcinogenic risk, including agents that are known, probable, or possible carcinogens. NTP classifies chemicals as either known carcinogens, or for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals. ACGIH recognizes several categories of carcinogens, including confirmed human carcinogens and suspected human carcinogens.

No animal skin carcinogenicity tests of these materials have been conducted. Neither IARC, NTP, ACGIH, nor OSHA have classified these materials as to their carcinogenic risk.

Also see **SECTION 15: CALIFORNIA.**

**REPRODUCTIVE
TOXICITY:**

Based on best current information, there is no known reproductive toxicity associated with this product.

Also see **SECTION 15: CALIFORNIA.**

TERATOGENICITY:

Based on best current information, there is no known teratogenicity associated with this product.

MUTAGENICITY:

Experimental evidence suggests that this product does not cause mutagenesis.

**TOXICOLOGICALLY
SYNERGISTIC
PRODUCT(S):**

Based on best current information, there are no known toxicologically synergistic products associated with this product.

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SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Not available.

**OCTANOL/WATER
PARTITION COEFFICIENT:** Not available.

**VOLATILE ORGANIC
COMPOUNDS:** 100 WT%; 7.3 lb/US gal; 880 g/l (approximately)
Photochemically reactive as per 40 CFR Part 51.100(s).

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding recycling or proper disposal.

**USEPA WASTE
CODE(S):** Not regulated.
This product, if discarded, is not expected to be a characteristic waste. If recycled in the USA, it must be managed in accordance with 40 CFR Part 279. Processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated.

TDG: Not regulated.

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

**SARA SECTIONS
311 AND 312:** This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986:

Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard

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SARA SECTION 313: Asterisked component in **SECTION 2** is subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372, under the Zinc Compounds category.

TSCA: All the components of this product are listed on, or are exempted from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA: This product contains arsenic, CAS 7440-38-2; benzene, CAS 71-43-2; cadmium, CAS 7440-43-9; and lead, CAS 7439-92-1 from additives. This product may contain detectable amounts of benzo(a)anthracene, CAS 56-55-3; benzo(k)fluoranthene, CAS 207-08-9; benzo(a)pyrene, CAS 50-32-8; benzo(b)fluoranthene, CAS 205-99-2; chrysene, CAS 218-01-9; dibenz(a,h)anthracene, CAS 53-70-3; and indeno(1,2,3-cd)pyrene, CAS 193-39-5. These materials are listed by the State of California as known carcinogens. Our testing of this product indicates that these materials are not always detectable.

This product contains a detectable amount of lead, CAS 7439-92-1, from additives. This material is listed by the State of California as known to cause reproductive toxicity.

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS: Not regulated.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

All the components of this product are listed on, or are exempted from the requirement to be listed on, the Canadian Domestic Substances List (DSL).

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SECTION 16. OTHER INFORMATION

REVISION INFORMATION: **SECTION 1: PRODUCT NAME,** included grades

LABEL/OTHER INFORMATION: Not available.

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product as supplied to the user.



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United Agri

NORTRACE 20-20-20-SOLUBLE FERTILIZER

NORTRACE 20-20-20 SOLUBLE FERTILIZER

1. PRODUCT INFORMATION

UNITED AGRI PRODUCTS

789 Donnybrook Drive
Dorchester, Ontario
N0L 1G5

EMERGENCY NUMBERS

During Working Hours: (UAP) 1-800-265-4624
After Hours (Burns): 1-800-561-8273
Canutec (Collect): 1-613-996-6666
Exposure Reporting - Minnesota Regional Poison Control
Centre: 1-800-228-5635, Ext. 136 or 1-612-851-8180,
Ext. 136 (Collect)

Preparation of Information: Irwin Schmidt, 1-800-265-4624
Date Issued: Jan. 23, 2002

Reference: Nortrace MSDS

Chemical Identity: Potassium nitrate, monoammonium
phosphate, diammonium phosphate, urea and micronutrients
Product Use: Inorganic chemical fertilizer mixture

2. HAZARDOUS INGREDIENTS

Hazardous Ingredients (CAS or UN Number)	Content	AOLD50 (Rat)	ADLD50 (Rabbit)	AILC 50(Rat)
Total Nitrogen as N	20%	n/e	n/e	n/e
Total Phosphorous as P2O5	20%			
Total Potassium	20%			
Balance - Micro-ingredients (Zn, Mn, Cu), fertilizer salts, inert ingredients/trace impurities				

3. PHYSICAL INFORMATION

Appearance & Odour: White to off-white and light coloured
granular powders with fertilizer-like odours
Specific Gravity: n/a
Boiling Pt, deg C: n/e
Vapour Density (air = 1): n/e
Density (g/mL): n/e
Freezing Pt, deg C: n/a
Vapour Pressure (mm): n/e
pH: n/e
Solubility in Water: Appreciable
Evaporation Rate: n/e

4. FIRE or EXPLOSION HAZARD

Flammability (Specify Conditions): N/A
Flash Pt, deg C (method): N/A
Means of Extinction: Determined by surrounding fire. Not
considered combustible.
Special Fire Fighting Procedures: Full protective equipment
and self-contained breathing apparatus.
Hazardous Combustion Products: Urea may decompose in a fire
situation and release cyanuric acid, ammonia, hydrogen
cyanide, oxides of nitrogen, and irritating particulates.
Sulfur-containing components may release oxides of
sulfur.
Unusual Fire & Explosion Hazards: N/E

5. REACTIVITY INFORMATION

Stability (Conditions to avoid): Stable - Avoid excessive
heat; moisture.
Reactivity & Under What Condition: Polymerization will not
occur.
Incompatibility (Materials to avoid): Strong oxidizing
agents.
Hazardous Decomposition Products: Urea may decompose to
release cyanuric acid, ammonia, HCN, NOx

6. HEALTH HAZARD INFORMATION

Routes of Entry: Skin and eye contact, acute inhalation and
ingestion.

Effects of Overexposure: These blended dry fertilizers are
typically mixtures of potassium, phosphates, chlorides,
nitrates, sulfur, sulfates, urea, and micro-ingredient
range quantities of metal salts such as iron, manganese,
copper and zinc. A review of the ingredient salts
indicates that ingestion may cause diarrhea, purging, and
flatulence. Nausea and vomiting could be expected upon
large dose ingestion. The acute ingestive effects are
described as nausea, chills and diarrhea. Eye or skin
contact with these products could cause irritation
(particularly in sensitive persons), and respiratory
irritation could be expected from the unprotected
breathing of fertilizer dust. Product users should avoid
prolonged or repeated skin contact, and they should use
eye protection when required by conditions of use.
Product users should wash thoroughly after using or
handling these fertilizers. Since children could receive
toxic ingestive doses of fertilizers, these products
should be stored in a secure place where children cannot
get at them.

Exposure Limits: TLV = 10 mg/m3 nuisance dust

Irritancy of Product: Fertilizer dusts may irritate the
eyes and respiratory system. Prolonged product contact
may irritate sensitive skin.

Sensitization of Material: None known. Pre-existing
respiratory conditions may be aggravated by exposure to
dusts.

Carcinogenicity: None listed.

7. PREVENTATIVE MEASURES

Respiratory Protection: Use NIOSH approved particulate
respirator if respirable dust generation occurs or is
anticipated during product use.

Eyes: Goggles/Face Shield

Gloves: Rubber or Impervious

Footwear: Rubber or Impervious

Clothing: Coveralls or Impervious apron when handling
concentrate.

Other: Work in well ventilated area.

Engineering Control: These products are fertilizers. Do not
eat them and avoid breathing their dusts.

Leak & Spill Procedures: Notify management of any
fertilizer spills. Fertilizer spills should be swept up
and/or be shoveled into closed containers for recovery
and use or disposal. Contact the manufacturer and the
provincial regulatory agency in case of a spill, and for
clean-up of spills.

Waste Disposal: For more information on the disposal of
unused, unwanted product and the cleanup of spills,
contact the provincial regulatory agency or the
manufacturer.

Storage Requirements: Store this product in a cool, dry
place, away from sources of high heat. Protect bags or
other containers from damage. Keep bags or other
containers closed when not in use.

TRANSPORTATION OF DANGEROUS GOODS: Not regulated.

8. FIRST AID MEASURES

Take container, label or product name and Product
Registration Number with you when seeking medical
attention. Call a physician immediately in all cases of
suspected poisoning.

Ingestion: Dilute with water or milk. If necessary induce
vomiting only when victim is conscious.

Inhalation: Remove to fresh air. If not breathing, give
artificial respiration.

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NORTRACE 20-20-20-SOLUBLE FERTILIZER

Skin: Wash from skin with soap and water.

Eyes: Flush with running water for at least 15 minutes
until irritation subsides.

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee expressed or implied is made by United Agri Products as to the results to be obtained based upon your use of the information, nor does United Agri Products assume any liability arising out of your use of the information.

n/a = not applicable n/e = not established

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COMPAS Code: 11230902

QUATREX

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: SYNTHETIC ABSORBENT
CHEMICAL FAMILY: OLEFINS

PRODUCT USE: ABSORBENT MEDIA
CHEMICAL NAME: POLYPROPYLENE 99.7%
Absorption Rate: 25 per l

WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)
WHMIS CLASSIFICATION: Not a controlled Product under (WHMIS)
WORK PLACE HAZARD: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENTS</u>	<u>PERCENT</u>	<u>GAS NUMBER</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Not a hazardous material under WHMIS				

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: () SKIN () EYE CONTACT () INHALATION () INGESTION
HEALTH HAZARDS (ACUTE OR CHRONIC): None
SIGNS & SYMPTOMS OF EXPOSURE : None - No toxic
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None

SECTION IV: FIRST AID MEASURES

No special procedures required

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR	: White & virtually odour
SPECIFIC GRAVITY	: 0.88 - 0.92
BOILING POINT (°C)	: Not applicable
MELTING POINT (°C)	: > 160 °C
SOLUBILITY IN WATER	: Insoluble
PERCENT VOLATILE BY VOLUME	: Not applicable
EVAPORATION RATE	: Not applicable
VAPOR PRESSURE (mm HG)	: Not applicable
VAPOR DENSITY (Air = 1)	: Not applicable

QUATREX ENVIRONNEMENT INC.

145, Boul. Dagenais Ouest, Laval (Quebec) H7L 5Z9	• Telephone : (800) 967-3002	• 622-5301
146 Cawthra Road, Mississauga (Ontario) L5A 3K6	• Telephone : (905) 842-1039	• 848-9320

QUATREX

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (°C)	: > 329°C (setchkin test)
FLAMMABLE LIMITS	: Not applicable
EXTINGUISHING MEDIA	: Water, Foam, CO2, Dry chemical
SPECIAL FIRE FIGHTING PROCEDURES	: Standard procedure for Class a fires
UNUSUAL FIRE AND EXPLOSION HAZARDS	: Some carbon monoxide formation is possible under oxygen lean conditions

SECTION VII: REACTIVITY DATA

STABILITY:	STABLE (XX)	UNSTABLE ()
INCOMPATIBILITY (CONDITIONS TO AVOID)		: None
INCOMPATIBILITY (MATERIALS TO AVOID)		: Nitric Acid
		Sulfuric Acid to 98% 60°C
HAZARDOUS POLYMERIZATION:	None POSSIBLE	

SECTION VIII: PREVENTIVE MEASURES

RESPIRATORY PROTECTION	: None required
VENTILATION	: None required
PROTECTION GLOVES	: None required
EYE PROTECTION	: None required
OTHER PROTECTIVE EQUIPMENT (SPECIFY)	: None required

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in dry area. Do not store near open flame, high heat or strong oxidants. Polypropylene, when heated, becomes very sticky and will burn. Use self-contained air masks to enter smokey area in the event of fire.

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED

No special steps to be taken if material is spilled or released

WASTE DISPOSAL METHOD

Sanitary landfill or incineration site. Disposal must be done in accordance with local, provincial and federal regulations.

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QUATREX

SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: JANUARY 13, 1997

PREPARED BY: SAFETY COMMITTEE

QUATREX ENVIRONNEMENT INC.

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