

RegalGrow 18-0-0 KSN **SAFETY DATA SHEET**

1. Identification

Product identifier RegalGrow 18-0-0 KSN

Urea Ammonium Nitrate Solution, NBNX Triazone SRN, NBPT and DCD Other means of identification

Recommended use Industrial Use **Recommended restrictions** Animal Feed

Manufacturer/Importer/Supplier/Distributor information

Company Name Regal Chemical Co

> 600 Branch Drive Alpharetta, Ga 30004 770-475-4837

Emergency For Chemical Emergency

Call CHEMTREC day or night

1.800.424.9300

Mexico - 1.800.681.9531 Outside USA/Canada 1.703.527.3887 (collect calls accepted)

2. Hazard(s) identification

Physical hazards May intensify fire; oxidizer **Health hazards** Causes serious eye irritation.

OSHA defined hazards

Hazard symbol

Label elements

Signal word Warning

May intensify fire; oxidizer. **Hazard statement Precautionary statement** Causes serious eye irritation.

Prevention

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and

east to do- continue rinsing. If eye irritation persist: Get medical advice/attention. Dispose of contents/container in accordance with local/national regulations.

Storage Disposal

Response

Hazard(s) not otherwise

classified(HNOC)

Supplemental information

3. Composition/information on ingredients

Substances Not applicable **Mixture**

Chemical name	CAS number	%
Total Nitrogen		18
SRN from Triazon Nitrogen		8.40
Soluble Potash (K2O)		0.00
Sulfur (S)		0.00
N-(n-butyl)-thiophosphoric tramide (NBPT		
Dicyandiamide DCD		

4. First-aid measures

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give

artificial respiration. If unconscious, place in the recovery position and obtain immediate medical

attention.

Skin contact Remove containminated clothing. Wash skin thoroughly with soap and water or use a recognized

skin cleanser.

Eye contact Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek

medical attention.

Ingestion If the person is conscious, have them drink water or milk. Contact a physician immediately. Do no

induce vomiting.

Most important

symptoms/effects, acute and

delayed

Contact with skin or eyes may cause irritation.

Causes serious eye irritation.

Indication of immediate medical attention and special

treatment needed
General information

Seek medical attention if irritations persist.

In all cases of doubt, or when symptoms persist, seek medical attention.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

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Specific hazards arising from the chemical

product can support combustion if water evaporates.

Use media needed to control surrounding fire. Water content of product prevents ignition. The

Hazardous decomposition: Combustion: oxides of nitrogen and carbon, ammonia, ammonium compounds, cyanide compounds, biuret. When the water in UAN evaporates, it leaves a residue of solid ammonium nitrate and urea; solid ammonium nitrate can explode.

Special protective equipment and precautions for firefighters

Avoid welding or burning on pipes, valves, or tanks, which have contained UAN solution until they have been thoroughly washed out. Residual ammonium nitrate may explode under conditions of confinement and hight temperature.

Fire fighting equipment/instructions

Wear self-contained breathing apparatus and protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment

Methods and materials for containment and cleaning up

EMERGENCY ACTION: Keep unnecessary people away, and isolate hazard ares.

SMALL SPILLS: Stop leak, if you can do so without risk. collect product for recovery and use

as fertilizer.

LARGE SPILLS: For release to land, contain discharge by constructing dyke's or applying inert absorbent. Keep out of streams. Check for contamination of drinking water supply. Notify applicable government authority if release is reportable or could adversely affect the

environment.

Environmental precautions Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using

toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

7. Handling and storage

Precautions for safe handling Handle containers carefully to prevent damage and spillage. May be toxic to cattle when

ingested. Practically non-toxic to aquatic life.

Conditions for safe storage, including any incompatibilities

Store in a tightly closed container. Protect from friezing. Avoid heat, flames, sparks and other sources of ignition and do not allow material to become dry. Do not use zinc or copper alloys in contact with nitrogen solution. Avoid contact with combustible, organic or other readily oxidizable materials. Avoid contact from urea nitrate when mixed with nitric acid at low pH:

urea nitrate may become unstable and/or explosive under certain conditions.

8. Exposure controls/personal protection

Urea No established limits NBNX No established limits DCD No established limits

Ammonium nitrate No established limits NBPT No established limits

Biological limit values Exposure guidelines

No biological exposure limits noted for the ingredient. Follow standard monitoring procedures.

Appropriate engineering

controls

Provide adequate ventiation.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear splash goggles, if exposed to splashing liquids.

Skin protection Suitable clothing to minimize skin contact are recommended.

Hand protection Rubber gloves

Always observe good personal hygiene measures, such as washing after handling the Other

material and before eating, drinking and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants.

Respiratory protection If workers are exposed to concentrations above the exposure limit they must use the

appropriate, certified respirators.

Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Liquid **Physical state** Liquid **Form**

Color May be clear or green

Odor It may have a faint to pungent ammonia odor

Odor threshold Not determined

pН 6.5-7.5 data available

Melting point/freezing point Not measured Initial boiling point and boiling > 100 °C

range

Flash point Not measured Not measured **Evaporation rate** Not applicable No data available Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not measured

Flammability limit - upper

(%)

Not measured

Explosive limit - lower (%)

Not measured Not measured Explosive limit - upper (%)

Vapor pressure

Not measured Vapor density Not measured Relative density

Solubility(ies)

Solubility (water) 100%

Partition coefficient Not measured

(n-octanol/water)

Auto-ignition temperature Not measured **Decomposition temperature** Not measured Not measured Viscosity

10. Stability and reactivity

Reactivity Hazardous polymerization will not occur.

Chemical stability Stable under normal circumstances.

Possibility of hazardous

reactions

No data available

Conditions to avoid

No data available

Incompatible materials

Avoid contact with combustible, organic or other readily oxidizable materials. Avoid contact from urea nitrate when mixed with nitric acid at low pH; urea nitrate may become unstable

Hazardous decomposition

and/or explosive under certain conditions.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation No specific data available

Skin contact Eye contact Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
Ammonium nitrate NBXN Triazone NBPT DCD		Not applicable Not applicable Not applicable Not applicable

Skin corrosion/irritation

Serious eye damage/eye irritation Respiratory or skin sensitization

No data available

Respiratory sensitization
Skin sensitization

No data available
No data available
No data available

Germ cell mutagenicity Carcinogenicity

This product is not considered t be a carcinogen by IARC, ACGIH, NTP, or OSHA

Reproductive toxicity
Aspiration hazard

No data available Not available

Chronic effects
Further information

No other specific acute or chronic health impact noted.

12. Ecological information

Ecotoxicity

Harmful to aquatic life..

Components		Species	Test Results		
Ammonium nitrate (6484-52-2)					
Aquatic					
Fish	LC50	Piscis	100mg/l, 96 hours		
Crustacea	EC50		490 mg/l, 48 hours		
Urea (57-13-6)					
Aquatic					
Fish		Piscis	6810 mg/l 96 hours		
Crustacea		Daphna magna	22998 mg/l 48 hours		
NBPT					
Aquatic					
Fish		Fish	1,140 mg/l, 96 hours		
Crustacea		Daphnia	290 mg/l, 48 hours		

Persistence and degradability

When release to silo, urea will hydrolyze into ammonium in a matter of days to several weeks. When released into water, this material may biodegrade to a moderate extent. When released into water, urea is expected to evaporate significantly bioaccumulation. When released into the air, urea is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, urea is expected to have a halpf-life of less than 1 day.

Bioaccumulative potential

Mobility in soil

Other adverse effects

Not measured

13. Disposal considerations Disposal instructions

No data available No data available

Hazardous waste code Waste from residues / unused

products

Contaminated packaging

Whatever cannot be saved for recovery or recycling should be managed in appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the wast management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

UN number **UN proper shipping name** Transport hazard class9es0 Packing group

Environmental hazards

IMDG Special precautions for user

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

ICAO/IATA DOT IMO Not regulated Not applicable Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

Marine pollutant: NO No further information

Not established

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910,1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No

Clean Air Act (САД) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated. Reactivity Hazard - No

Clean Air Act (CAA) Section 112(r) Accident Not regulated. SARA 311/312 Hazardous

e Prevention (40 CFR 68.130) SARA 302 Extremely hazardous substance

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug

Total food additive Direct food additive Administration (FDA) GRAS food additive

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 16-Dec 2021

Revision date Version # 01

Further information HMIS® is a registered trade and service mark of the NPCA.

Health: 2 **HMIS®** ratings

Flammability: 0 Physical hazard: 0

NFPA ratings

References



List of abbreviations

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%. EPA: Acquire database

HSDB® - Hazardous Substances Data Bank

RTECS

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