

# 10-10-10 All Purpose Fertilizer Safety Data Sheet

## **Section 1. Identification**

**Product identifier** 10-10-10 All Purpose Fertilizer

Other means of identification None
Synonyms None
Recommended use Fertilizer

Uses advised against None Non-hazardous

**Company** Southern Agricultural Insecticides, Inc.

P.O. Box 218

Palmetto, FL 34220

Company Telephone/Fax (941) 722-3285/(941) 723-2974

Emergency Telephone Number For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident,

Call CHEMTREC Day or Night: 1-800-424-9300

### Section 2. Hazards identification

OSHA/HCS status While this material is not considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified. Non-hazardous product.

GHS label elements Not Applicable.

Hazard pictograms
Signal word
Hazard statements
Not Applicable.
Not Applicable.

**Precautionary statements** 

**General** Read label before use. Keep out of reach of children. If medical

advice is needed, have product container or label at hand.

Prevention Not Applicable.
Response Not Applicable.
Storage Not Applicable.
Disposal Not Applicable.

Hazards not otherwise

classified

Handling and/or processing of this material may generate a dust

which can cause mechanical irritation of the eyes, skin, nose and

throat.

## Section 3. Composition/information on ingredients

Substance/mixture Multi-constituent substance 1/14

CAS number Not available.

Ingredient name	%	CAS number
Ammonium sulfate	28 - 36	7783-20-2
Potassium magnesium sulfate	18	14977-37-8
Calcium sulfate, dihydrate	14 - 15	10101-41-4
Ammonium dihydrogen orthophosphate	13 - 18	7722-76-1
Potassium chloride	10 - 11	7447-40-7
Ammonium nitrate	2-3	6484-52-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

## **Description of necessary first aid measures**

Eye contact	No known significant effects or critical hazards. M	ay cause irritation due to
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mechanical action. Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any

contact lenses. If irritation persists, get medical attention.

**Inhalation** Non-hazardous in case of inhalation. No known significant effects or

critical hazards. Get medical attention if symptoms occur.

In a fire, hazardous decomposition products may be produced. If any ill effects are felt, proceed as follows. If breathing is difficult, remove to fresh

air and keep at rest in a position comfortable for breathing. Loosen

tight clothing such as a collar, tie, belt or waistband. In case

of inhalation of decomposition products in a fire, symptoms may be

delayed. For additional advice call the medical emergency number on this

SDS or your poison center or doctor.

Skin contact Ingestion

No known effect after skin contact. Rinse with water for a few minutes. Ingestion may cause gastrointestinal irritation and diarrhea. Wash out mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical

personnel. If vomiting occurs, the head should be kept low

so that vomit does not enter the lungs. For additional advice call the medical emergency number on this SOS or your poison center or doctor.

## Most important symptoms/effects. acute and delayed Potential acute health effects

Eye contact May cause irritation due to mechanical action.

**Inhalation** Exposure to airborne concentrations above statutory or recommended

exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact** No known significant effects or critical hazards.

**Ingestion** May cause irritation of the digestive tract with accompanying nausea,

vomiting and diarrhea.

## Over-exposure signs/symptoms

**Eye contact** Adverse symptoms may include the following:

irritation, watering, redness

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation, coughing

**Skin contact** No specific data. **Ingestion** No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** In case of inhalation of decomposition products in a fire, symptoms may

be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

Specific treatments

No specific treatment. Treat symptomatically.

Protection of first-alders No action should be taken involving any personal risk or without suitable

training. It may be dangerous to the person providing aid to give mouth-to-

mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Use an extinguishing agent suitable for the surrounding fire.

None known.

Specific hazards arising

from the chemical

No specific fire or explosion hazard. The substance will not

burn. Undergoes thermal decomposition at elevated temperatures to release toxic and flammable gases.

Hazardous thermal

decomposition products

Decomposition products may include the following materials:

nitrogen oxides, sulfur oxides

**Special protective actions** 

for fire-fighters

Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Special protective

equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

**Remark** Contain and collect the water used to fight the fire for later

treatment and disposal.

#### Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency No ac

No action shall be taken involving any personal risk or without suit able training. Keep personnel unnecessary and unprotected personnel from entering. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Will dissolve and disperse in water. Reclaiming material may not be possible. If possible, recover spilled product and place in suitable containers for recycle, reuse, or disposal. Product will promote algae growth and may degrade water quality and taste. Notify downstream water users. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

**Small spill** Move containers from spill area. Avoid dust generation. Recycle, if possible.

or : place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Avoid creating dusty conditions and prevent wind dispersal. Recycle to process, if possible.

or: Place spilled material in an appropriate container for disposal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

## Precautions for safe handling

Protective measures Put on appropriate personal protective equipment (see Section 8).

Do not ingest. Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated elething and protective agreement before

contaminated clothing and protective equipment before

entering eating areas. See also Section 8 for additional information

hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Hygroscopic. Absorbs moisture on long-term storage under high humidity condiions. Store in original container protected from direct sunlight in a dry, cool and

well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

## **Control parameters**

## Occupational exposure limits

Ingredient name Ammonium sulfate	Exposure limits OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m3; Respirable fraction: 5 mg/m3.
Potassium magnesium sulfate	OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m3 Respirable fraction: 5 rnq/rn",
Calcium sulfate, dihydrate	ACGIH TLV (United States, 4/2014). TWA: 10 mg/m3 8 hours. Form: Inhalable fraction
Potassium chloride	OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m3 Respirable fraction: 5 mg/m3.
Ammonium dihydrogen orthophosphate	·
Ammonium nitrate	OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m3; Respirable fraction: 5 mg/m3.
Appropriate engineering controls	Use only with adequate ventilation. If user operations gener ate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the require ments of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Individual protection measures Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

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## Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection

Hand protection The personal protective equipment required varies, depending

upon your risk assessment. No special protection is required. For prolonged or repeated handling, use the following type of gloves:

leather work gloves

**Body protection** Personal protective equipment for the body should be selected

based on the task being performed and the risks involved and should be approved by a specialist before handling

this product. Cotton or cotton/synthetic overalls or coveralls are

normally suitable.

Other skin protection Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. No special measures are typically indicated.

**Respiratory protection** A respirator is not needed under normal and intended conditions of

product use. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Contact your personal protective equipment supplier to verify the compatibility of the equipment for the intended purpose. For U.S. work sites where respiratory protection is required, ensure that a respiratory protection program meeting 29 CFR 1910.134 requirements is in place.

## Section 9. Physical and chemical properties

**Appearance** 

Odor

Physical state Granular solid.

Color Gray.
Odorless.

Odor threshold Not applicable. pH 6 [Conc. ( w/w): 10]

Melting point

Not available.

Boiling point

Decomposes.

**Flash point** [Product does not sustain combustion.]

**Evaporation rate** Not applicable.

Flammability (solid, gas) Not applicable. The substance will not burn. Undergoes thermal

decomposition at elevated temperatures to release toxic and

flammable gases.

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Lower and upper explosive

(flammable) limits

Vapor pressure

Vapor density

Not applicable. Not applicable.

Not applicable.

Not applicable.

Relative density Solubility

Easily soluble in the following materials: hot water.

Soluble in the following materials: cold water.

Solubility in water
Partition coefficient: n-

Water soluble.

Not available.

octanol/water

Auto-ignition temperature Decomposition temperature Viscosity

Not applicable Not available. Not applicable.

## Section 10. Stability and reactivity

**Reactivity**No specific test data related to reactivity available for this product or

its ingredients.

**Chemical stability** The product is stable.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions

will not occur.

Conditions to avoid Absorbs moisture on long-term storage under high humidity condi

tions. Store in a well-ventilated, dry place. Protect from moisture.

**Incompatible materials** Incompatible with halogens. Incompatible with oxidizers

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

## **Section 11. Toxicological information**

## Information on toxicological effects Acute toxicity

Product/ingredient name sure	Result	Species	Dose	Expo-
Ammonium sulfate	LD50 Oral	Mouse - Male, Female	3040 mg/kg	
	LD50 Oral	Rat	2840 mg/kg	-
	LD50 Oral	Rat - Male, Female	>2000 mg/kg	-
Potassium magnesium sulfate	LD50 Oral	Rat	3 g/kg	-
Calcium sulfate, dihydrate	LC50 Inhalation Dusts and mists LD50 Oral	Rat - Male, Female Rat - Male, Female	>3.26 mg/l 4 hou CaS04.2H20 >1581 mg/kg	ırs -

Ammonium dihydrogen	LD50 Oral	Rat - Male,	>2000 mg/kg	-
orthophosphate		Female		
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
Ammonium nitrate	LD50 Oral	Rat	2217 mg/kg	-
	LD50 Oral	Rat - Male,	2950 mg/kg	-
		Female		

**Conclusion/Summary** Very low toxicity to humans or animals. No known significant effects or

critical hazards.

## Irritation/Corrosion

Product/ingredient name Observation	Result		Species	Score	Exposure
Ammonium sulfate	Skin	Rabbit	0	20 hours	24 hours
	Eyes	Rabbit	0	-	72 hours
Ammonium nitrate	Skin	Rabbit	0	_	72 hours
	Eyes - Edema	Rabbit	3	-	3 days
	of the conjunctivae				
Conclusion/Summary					
Skin	No known significant effe	ects or crit	tical hazard	ls.	
Eyes	Non-irritating to the eyes. Based on available data, the classification criteria are not met.			ssification	
Respiratory	No known significant effe	ects or crit	tical hazard	ds.	

## Sensitization

Product/ingredient name	Route of	Spec	ies	Result
	exposure			
Ammonium sulfate	skin	Guinea pig	Not s	ensitizing
Calcium sulfate, dihydrate	skin	Guinea pig	Not s	ensitizing
Ammonium nitrate	skin	Mouse	Not s	ensitizing

## Conclusion/Summary

Skin Non-sensitizer.

Respiratory No known significant effects or critical hazards.

## Mutgenicity

Product/ingredient name sult	Test	Experiment	Re-
Ammonium sulfate	OECD 476	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal Cell: Germ	Negative
Calcium sulfate, dihydrate	OECD 476 /n vitro Mammalian Cell Go Mutation Test	•	Negative

Section 11. Toxicological information continued

Subject: Mammalian-Animal

Cell: Germ

Potassium chloride - Experiment: In vivo Negative

Subject: Mammalian-Animal

Cell: Somatic

Ammonium nitrate OECD 471 Bacterial

**Reverse Mutation Test** 

Experiment: In vitro

Negative

Negative

Subject: Bacteria

OECD 476 /In vitro Experiment: In vitro

Mammalian Cell Gene

**Mutation Test** 

Subject: Mammalian-Animal

Conclusion/Summary No known significant effects or critical hazards.

## Carcinogenicity

Product/ingredient nameResultSpeciesDoseExposureAmmonium sulfateNegative - Oral - TCloRat - Male, 1288 mg/kg2 years; 7 daysPotassium chlorideNegative - Oral - TDloRat - Male1820 mg/kg-

**Conclusion/Summary** No known significant effects or critical hazards.

#### Classification

Product/ingredient name OSHA IARC NTP
Ammonium sulfate None. - -

Reproductive toxicity

Product/ingredient name Maternal Fertility **Development Species** Dose **Exposure** toxicity toxin Ammonium sulfate Mouse -Negative Negative Oral: Male. 5000 mg/ Female kq Calcium sulfate, dihydrate Negative Negative Negative Rat - Male. Oral Female

**Conclusion/Summary** No known significant effects or critical hazards

**Teratogenicity** 

Product/ingredient nameResultSpeciesDoseExposureAmmonium sulfateNegative - OralRat - Male,1500 mg/kg-

Female

Conclusion/Summary No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

**Information on the likely** routes of entry anticipated: Inhalation.

routes of exposure

### Potential acute health effects

**Eye contact** May cause irritation due to mechanical action.

**Inhalation** Exposure to airborne concentrations above statutory or recommended

exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact** No known significant effects or critical hazards.

**Ingestion** May cause irritation of the digestive tract with accompanying nausea,

vomiting and diarrhea.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** Adverse symptoms may include the following: irritation, watering,

redness

**Inhalation** Adverse symptoms may include the following: respiratory tract irritation

coughing

**Skin contact** No specific data. **Ingestion** No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

Long term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

#### Potential chronic health effects

Product/ingredient name	e Result	Spec	ies Dose	Exposure
Ammonium sulfate	Chronic NOAEL Oral	Rat - Male,	256 mg/kg	52 weeks; 7 days
		Female		per week
Potassium chloride	Chronic NOAEL Oral	Rat - Male	1820 mg/kg	-
Ammonium nitrate	Chronic NOAEL Oral	Rat - Male,	256 mg/kg	-
		Female		

Conclusion/SummaryNo known significant effects or critical hazards.GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

## Numerical measures of toxicity

**Acute toxicity estimates** 

Route ATE value
Oral 1924.2 mg/kg
Inhalation (dusts and mists) 10.27 mg/l

## Section 12. Ecological information

## **Toxicity**

Product/ingredient	name	Result	Species	Exposure
Ammonium sulfate		Acute LC50 2.6 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Young	48 hours
		Acute LC50 14000 I-Ig/I Daphnia -	Daphnia magna -	48 hours
		Fresh water	Young	
		Acute LC50 53 mg/l	Fish - Oncorhynchus mykis	96 hours
Calcium sulfate, dihy	drate	EC50 > 79 mg/l	Algae	72 hours
		EC50 > 79 mg/l	Daphnia	48 hours
		EC50 >790 mg/l	Micro-organism	3 hours
		Acute LC50 >1970 mg/l	Fish	96 hours
potassium chloride	Acute	EC50 1337000 I-Ig/I Fresh water	Algae - Navicula seminulum	96 hours
	Acute	EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute	EC50 83000 µg/1 Fresh water	Daphnia - Daphnia magna	48 hours
	Acute	LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute	LC50 435000 ug/l Fresh water	Fish - Gambusia affinis - Adult	96 hours
Ammonium nitrate	Chror	nic NOEC 6 to 12 mg/l Fresh water	Crustaceans - Cladocera	21 days

**Conclusion/Summary** Practically non-toxic to aquatic organisms.

**Persistence and degradability** Not available.

Bioaccumulative potential

Mobility in soil

Soil/water partition coefficient (Kee)

Not available.

Other adverse effects No known significant effects or critical hazards.

## Section 13. Disposal considerations

## **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

DOT	Not regulated.	<b>IMDG</b> Not regulated
TDG	Not regulated	IATA Not regulated
<b>Mexico Classification</b>	Not regulated	_

ADR/RID Not regulated. 11/14

**UN** proper None

shipping name

**Transport** None

hazard class(es)

Packing group None **Environmental** No. Additional None

information

## Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

U.S. Federal regulations	TSCA 8(a) COR Exempt/Partial exemption: Not determined
o con a care a cogare a con a cogare a con	TSCA 8(h) inventory: All components are listed or exempted

TSCA 8(b) inventory: All components are listed or exempted. Not listed

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Not listed

Class I Substances

Not listed

Clean Air Act Section 602 Class II Substances

Not listed

**OEA List I Chemicals** (Precursor Chemicals)

Not listed

**DEA List II Chemicals** (Essential Chemicals)

Not listed

SARA 304 RQ

SARA 311/312

Classification Not applicable.

## **SARA 313**

	Product name	CAS number	%
Form R - Reporting	Ammonium sulfate	7783-20-2	28.085 - 36.583
requirements	Ammonium dihydrogen orthophosphate	7722-76-1	10.998 - 15.13
	Ammonium nitrate	6484-52-2	2.9
Supplier notification	Ammonium sulfate	7783-20-2	28.085 - 36.583
	Ammonium dihydrogen orthophosphate	722-76-1	10.998 - 15.13
	Ammonium nitrate	6484-52-2	2.9

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

## State regulations

Massachusetts The following components are listed: Ammonium sulfate; Ammonium

nitrate

New York None of the components are listed.

New Jersey The following components are listed: Ammonium nitrate; Nitric acid,

ammonium salt

Pennsylvania The following components are listed: Sulfuric acid diammonium salt; Nitric

acid, ammonium salt

## California Prop. 65

Not listed.

## International regulations International lists National inventory

Australia Not determined.

Canada All components are listed or exempted.

China Not determined. Europe Not determined. Japan Not determined. Malaysia Not determined. New Zealand Not determined. Philippines Not determined. Republic of Korea Not determined. Taiwan Not determined.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: 0 Flammability: 0 Physical hazards: 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

The customer is responsible for determining the PPE code for this material.

### Notice to reader

The information and recommendations contained in this Safety Data Sheet ("SDS") relate only to the specific material referred to herein (the "Material") and do not relate to the use of such Material in combination with any other material or process. The information and recommendations contained herein are believed to be current and correct as of the date of this SDS. HOWEVER, THE INFORMATION AND RECOMMENDATIONS ARE PRESENTED WITHOUT WARRANTY, REPRESENTATION OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THEIR ACCURACY, CORRECTNESS OR COMPLETENESS. AND THE SELLER. SUPPLIER AND MANUFACTURER

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