

## Royal Crown Tech AZ Grease #2

Revision date 12-Mar-2020

Revision Number 1

### 1. Identification

#### Product identifier

**Product Name** Royal Crown Tech AZ Grease #2

#### Other means of identification

**Product Code(s)** 9720WA7RM  
**Synonyms** None

#### Recommended use of the chemical and restrictions on use

**Recommended use** Lubricating grease  
**Restrictions on use** No information available

#### Details of the supplier of the safety data sheet

<b>Initial Supplier Identifier</b>	<b>Supplier address</b>
AXEL Royal, LLC	AXEL Royal, LLC
516 S. 25th West Ave	516 S. 25th West Ave
Tulsa, OK 74127	Tulsa, OK 74127
United States	United States
918 584 2671	918 584 2671

#### Emergency telephone number

**ChemTel Emergency telephone** 1-800-255-3924  
**International Emergency telephone** +01-813-248-0585

### 2. Hazard(s) identification

#### Classification

Not classified.

#### Label elements

Not classified.

#### Other information

May be harmful if swallowed. May be harmful in contact with skin.

#### **Unknown acute toxicity**

Not applicable

### 3. Composition/information on ingredients

#### Substance

Not applicable.

**Mixture**

Chemical name	CAS No	Weight-%	trade secret
Aluminium benzoate C16-C18 fatty acid complexes	REGIONDEPEND ENT	10-30	*
Calcium Carbonate (CaCO <sub>3</sub> )	471-34-1	2.5-5	*
Titanium Dioxide	13463-67-7	2.5-5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

**Description of first aid measures**

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

**Special exposure hazards in a fire**

**Specific hazards arising from the chemical** Fire may produce irritating, corrosive and/or toxic gases.

**Hazardous combustion products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

**Protective equipment and precautions for firefighters**

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Extremely slippery when spilled. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Use personal protective equipment as required.

**For emergency responders** Use personal protection recommended in Section 8.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Use personal protective equipment as required. Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Avoid contact with eyes and prolonged or repeated contact with skin.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep at a temperature not exceeding 45 °C.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminium benzoate C16-C18 fatty acid complexes REGIONDEPENDENT	TWA: 1 mg/m <sup>3</sup> respirable fraction	-	-
Calcium Carbonate (CaCO <sub>3</sub> ) 471-34-1	No data available	-	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Titanium Dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>

Chemical name	Alberta	British Columbia	Ontario	Quebec
Aluminium benzoate C16-C18 fatty acid complexes REGIONDEPENDENT		TWA: 1.0 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	
Calcium Carbonate (CaCO <sub>3</sub> ) 471-34-1	TWA: 10 mg/m <sup>3</sup>			TWA: 10 mg/m <sup>3</sup>
Titanium Dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment



<b>Hand protection</b>	Wear protective nitrile rubber gloves, Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves
<b>Eye/face protection</b>	No special protective equipment required. If splashes are likely to occur, wear safety glasses with side-shields.
<b>Skin and body protection</b>	No special protective equipment required.
<b>Respiratory protection</b>	None under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Semi-Solid
<b>Appearance</b>	No information available
<b>Color</b>	No information available
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>		No information available
<b>Melting point / freezing point</b>		No information available
<b>Boiling point / boiling range</b>		No information available
<b>Flash point</b>	> 150 °C / > 302 °F	Based on base oils
<b>Evaporation rate</b>		No information available
<b>Flammability (solid, gas)</b>		No information available
<b>Flammability Limit in Air</b>		No information available
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>		No information available
<b>Vapor density</b>		No information available
<b>Relative density</b>		No information available
<b>Water solubility</b>	Insoluble in water	No information available
<b>Solubility in other solvents</b>		No information available
<b>Partition coefficient</b>		No information available
<b>Autoignition temperature</b>		No information available
<b>Decomposition temperature</b>		No information available
<b>Kinematic viscosity</b>		No information available
<b>Dynamic viscosity</b>		No information available

### Other information

<b>Explosive properties</b>	None under normal use conditions
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Oxidizing properties	No information available
VOC Content (%)	0.03
Liquid Density	< 1000 kg/m <sup>3</sup> @ 25 °C / 77 °F

## 10. Stability and reactivity

### Reactivity

Reactivity Stable.

### Chemical stability

Stability Stable under normal conditions.

### Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

### Conditions to avoid

Conditions to avoid Excessive heat.

### Incompatible materials

Incompatible materials Strong oxidizing agents.

### Hazardous decomposition products

Hazardous decomposition products None under normal use conditions.

## 11. Toxicological information

### Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

**Inhalation** Not an expected route of exposure. Specific test data for the substance or mixture is not available.

**Eye contact** Not expected to cause eye irritation.

**Skin contact** May be harmful in contact with skin.

**Ingestion** May be harmful if swallowed.

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

Symptoms No information available.

### Acute toxicity

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 4,386.10 mg/kg

ATEmix (dermal) 2,099.30 mg/kg

#### Unknown acute toxicity

Not applicable.

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50

Aluminium benzoate C16-C18 fatty acid complexes REGIONDEPENDENT	> 2000 mg/kg	> 2000 mg/kg	-
Calcium Carbonate (CaCO <sub>3</sub> ) 471-34-1	= 6450 mg/kg ( Rat )	-	-
Titanium Dioxide 13463-67-7	> 10000 mg/kg ( Rat )	-	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Titanium Dioxide 13463-67-7	-	Group 2B	-	X

#### Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 12. Ecological information

### Ecotoxicity

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

### Persistence and degradability

**Persistence and degradability** Not readily biodegradable.

### Bioaccumulative potential

**Bioaccumulation** No information available.

### Mobility

**Mobility in soil** After release, adsorbs onto soil.

**Mobility** Insoluble in water.

### Other adverse effects

**Other adverse effects** No information available.

## 13. Disposal considerations

**Waste treatment methods**

<b>Waste from residues/unused products</b>	Dispose of in accordance with federal, state and local regulations. Should not be released into the environment. Use personal protection recommended in Section 8.
<b>Contaminated packaging</b>	Dispose of in accordance with federal, state and local regulations.
<b>Other information</b>	Waste codes should be assigned by the user based on the application for which the product was used

## 14. Transport information

**DOT**

Not regulated

**TDG**

No information available

**MEX**

No information available

**ICAO (air)**

Not regulated

**IATA**

Not regulated

**IMDG**

Not regulated

**RID**

Not regulated

**ADR**

Not regulated

**ADN**

Not regulated

## 15. Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	-
<b>REACH</b>	Contact supplier for inventory compliance status
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies

KECL	Complies
PICCS	-
AICS	Complies
NZIoC	Complies
TSCI	-

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**REACH** - Registration, Evaluation, Authorization, and Restriction of Chemicals Regulation (EC 1907/2006)  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**TSCI** - Taiwan Chemical Substance Inventory

**US Federal Regulations**

<b>SARA 313</b>	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
<b>SARA 311/312 Hazard Categories</b>	Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.
<b>CWA (Clean Water Act)</b>	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
<b>CERCLA</b>	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

**WARNING** This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Chemical name	California Proposition 65
Titanium Dioxide 13463-67-7 (2.5-5 %)	Carcinogen
Crystalline Silica (Quartz) 14808-60-7 (<0.1 %)	Carcinogen



**U.S. State Right-to-Know Regulations****US State Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Titanium Dioxide 13463-67-7	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. Other information**

<b>NFPA</b>	Health hazards 0	Flammability 1	Instability 0	Physical and chemical properties -
<b>HMIS</b>	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection p

**Key or legend to abbreviations and acronyms used in the safety data sheet**

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 RTECS (Registry of Toxic Effects of Chemical Substances)  
 World Health Organization

Revision date 12-Mar-2020

Revision Note No information available.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**