1. IDENTIFICATION

1.1. Product identifier

Product name: Royal Crown Tech Plus 32
Product code: 822
Synonyms: None

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Lubricant
Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer: AXEL Royal, LLC
516 S. 25th West Ave
Tulsa, OK 74127
United States
918 584 2671

1.4. Emergency telephone number

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

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.2. Label elements

Signal word: None
Symbols/Pictograms: None

2.3. Hazards not otherwise classified (HNOC)

May be harmful in contact with skin.

2.4. Other information

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Ingredient comments: The mineral oils in the product contain <3% DMSO-extract (IP 346).
4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation  Move to fresh air in case of accidental inhalation of vapors or decomposition products.

Skin contact  Wash skin with soap and water.

Eye contact  Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion  Do not induce vomiting without medical advice. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms  None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media  Use CO2, dry chemical, or foam.

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

5.2. Special hazards arising from the substance or mixture

Not flammable. Fire may produce irritating 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.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions  Extremely slippery when spilled. Avoid contact with eyes and skin. Avoid breathing vapors or mists. Use personal protection recommended in Section 8.

For emergency responders  Use personal protection recommended in Section 8.

6.2. Environmental precautions

See Section 12 for additional Ecological Information.

6.3. 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 non-combustible absorbent material and place into containers for later disposal.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure guidelines
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

8.2. Exposure controls

Engineering controls
- Eyewash stations
- Ventilation systems

8.3. Individual protection measures, such as personal protective equipment

Hand protection
Wear protective nitrile rubber gloves Thickness ≥ 0.38 mm - breakthrough time >480 minutes. Thickness 0.1 mm - splash protection.

Eye/face Protection
Wear safety glasses with side shields (or goggles).

Skin and body protection
No special technical protective measures are necessary.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance
Smooth

Physical state
Liquid
10. STABILITY AND REACTIVITY

10.1. Reactivity
Stable.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid
Heat.

10.5. Incompatible materials
Strong oxidizing agents.

10.6. Hazardous decomposition products
None under normal processing.

11. TOXICOLOGICAL INFORMATION

11.1. Information on likely routes of exposure

Inhalation: Inhalation of oil mist may cause irritation, headaches, nausea and breathing difficulties.

Ingestion: Malaise (vague feeling of discomfort).

Skin contact: May be harmful in contact with skin.

Eye contact: May cause slight irritation.

11.2. Information on toxicological effects
Symptoms

No information available.

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

Skin corrosion/irritation
Not hazardous based on component data.

Serious eye damage/eye irritation
Not hazardous based on component data.

Sensitization
Not hazardous based on component data.

Germ cell mutagenicity
Not hazardous based on component data.

Carcinogenicity
Not hazardous based on component data.

Reproductive toxicity
Not hazardous based on component data.

STOT-single exposure
Not hazardous based on component data.

STOT-repeated exposure
Not hazardous based on component data.

Aspiration hazard
Not hazardous based on component data.

11.4. Numerical measures of toxicity

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

<table>
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<th>Parameter</th>
<th>Value</th>
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<tr>
<td>ATEmix (dermal)</td>
<td>2391 mg/kg</td>
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12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity
Not regarded as dangerous for the environment. Occasional major emissions or frequently recurring minor emissions may have a harmful or disturbing effect.

12.2. Persistence and degradability
Not readily biodegradable.

12.3. Bioaccumulative potential
Material does not bioaccumulate.

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

12.5. Results of PBT and vPvB assessment
No information available

12.6. Other adverse effects
No information available
13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of wastes  
Dispose of in accordance with federal, state and local regulations. Use personal protection recommended in Section 8.

Contaminated packaging  
Dispose of in accordance with federal, state and local regulations

US EPA waste number  
No information available

Other information  
Waste codes should be assigned by the user based on the application for which the product was used

14. TRANSPORT INFORMATION

14.1. UN number  
Not regulated

14.2. UN proper shipping name  
Not regulated

14.3. Transport hazard class(es)  
Not regulated

14.4. Packing group  
Not applicable

14.5. Environmental hazards  
None

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
No information available

14.7. Special precautions for user  
None

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

CWA (Clean Water Act)  
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)

International Inventories

TSCA  
Complies

DSL/NDSL  
Complies

EINECS/ELINCS  
Complies

ENCS  
Complies

IECSC  
Complies

KECL  
Complies

PICCS  
Complies

AICS  
Complies

NZIoC  
Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
US Federal Regulations

SARA 313 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.

SARA 311/312 Hazard Categories

<table>
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<td>Chronic Health Hazard</td>
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<td>Fire Hazard</td>
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<tr>
<td>Sudden release of pressure hazard</td>
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<tr>
<td>Reactive Hazard</td>
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CERCLA

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 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

<table>
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<tr>
<th>HMIS</th>
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Revision date 11-Sep-2019

Revision note SDS sections updated, 8, 11, 15

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 Material Safety Data Sheet