

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 17 Apr 2023

Print date: 23 Feb 2024

Version: 2

Page 1/10



Ultimate Grease 5kg

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name/designation:

Ultimate Grease 5kg

Article No.:

T205005

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

Use of the substance/mixture:

Lubricating agent

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: none

Supplemental hazard information	
EUH208	Contains Polysulfides, di-tert-dodecyl. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Precautionary statements: none

2.3. Other hazards

Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 17 Apr 2023

Print date: 23 Feb 2024

Version: 2



Page 2/10

Ultimate Grease 5kg

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-53-6 EC No.: 265-156-6 REACH No.: 01-2119480375-34	Distillates (petroleum), hydrotreated light naphthenic Asp. Tox. 1 (H304) Danger	3 - < 5 Vol-%
CAS No.: 108-32-7 EC No.: 203-572-1 Index No.: 607-194-00-1 REACH No.: 01-2119537232-48	propylene carbonate Eye Irrit. 2 (H319) Warning	1 - < 3 Vol-%
CAS No.: 68425-15-0 EC No.: 270-335-7 REACH No.: 01-2119540516-41	Polysulfides, di-tert-dodecyl Skin Sens. 1B (H317) Warning	0.1 - < 1 Vol-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

In case of skin contact:

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

After eye contact:

Rinse cautiously with water for several minutes. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Following ingestion:

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

Self-protection of the first aider:

Use personal protection equipment.

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

Headache, Nausea, Dizziness, Fatigue, Skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water mist, Foam, Carbon dioxide (CO₂), Extinguishing powder

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis can produce gases of varying toxicity. In the case of products containing hydrocarbons, e.g. CO, CO₂, aldehydes and soot. These can be very dangerous if inhaled in high concentrations or in enclosed spaces.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 17 Apr 2023

Print date: 23 Feb 2024

Version: 2

Page 3/10



Ultimate Grease 5kg

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protection equipment. First aider: Pay attention to self-protection!

6.1.2. For emergency responders

Personal protection equipment:

Fight fire with normal precautions from a reasonable distance.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

6.3. Methods and material for containment and cleaning up

For containment:

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up:

Clean contaminated articles and floor according to the environmental legislation.

Other information:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Further information on proper storage: see section 7.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

Avoid contact with eyes and skin.

Fire prevent measures:

Keep away from sources of ignition - No smoking.

Advices on general occupational hygiene

Avoid exposure - obtain special instructions before use. Wear suitable work clothing. Draw up and observe skin protection programme.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed. Observe legal rules and regulations.

Hints on storage assembly:

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Keep away from food, drink and animal feed.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 17 Apr 2023

Print date: 23 Feb 2024

Version: 2



Page 4/10

Ultimate Grease 5kg

Storage class (TRGS 510, Germany): 11 - Combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Store in a cool dry place. Observe legal rules and regulations.

7.3. Specific end use(s)

Recommendation:

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6	2.73 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6	5.58 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6	1.19 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6	0.97 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6	0.74 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Polysulfides, di-tert-dodecyl CAS No.: 68425-15-0 EC No.: 270-335-7	32.9 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Polysulfides, di-tert-dodecyl CAS No.: 68425-15-0 EC No.: 270-335-7	5.8 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Polysulfides, di-tert-dodecyl CAS No.: 68425-15-0 EC No.: 270-335-7	46.7 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Polysulfides, di-tert-dodecyl CAS No.: 68425-15-0 EC No.: 270-335-7	1.7 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 17 Apr 2023

Print date: 23 Feb 2024

Version: 2



Page 5/10

Ultimate Grease 5kg

Substance name	DNEL value	① DNEL type ② Exposure route
Polysulfides, di-tert-dodecyl CAS No.: 68425-15-0 EC No.: 270-335-7	16.7 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Substance name	PNEC Value	① PNEC type
Polysulfides, di-tert-dodecyl CAS No.: 68425-15-0 EC No.: 270-335-7	0.001 mg/L	① PNEC sewage treatment plant
Polysulfides, di-tert-dodecyl CAS No.: 68425-15-0 EC No.: 270-335-7	3.85 mg/kg	① PNEC sediment, freshwater
Polysulfides, di-tert-dodecyl CAS No.: 68425-15-0 EC No.: 270-335-7	0.385 mg/kg	① PNEC sediment, marine water

8.2. Exposure controls

8.2.1. Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

8.2.2. Personal protection equipment

Eye/face protection:

Suitable eye protection: Safety goggles with side shields (EN 166).

Skin protection:

Hand protection:

Use protective skin cream before handling the product. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber)

Breakthrough time: 480 min.

Thickness of the glove material: 0,45 mm

EN ISO 374

Body protection:

Wear suitable work clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

If the relevant occupational exposure limits are exceeded, the following must be observed: Suitable respiratory protective device: Combination filter device (DIN EN 141). Filter unit with filter or blower filter unit type: P

Observe the wear time limits as specified by the manufacturer.

Observe legal rules and regulations.

8.2.3. Environmental exposure controls

Observe legal rules and regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: pasty

Colour: red

Odour: characteristic

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 17 Apr 2023

Print date: 23 Feb 2024

Version: 2



Page 6/10

Ultimate Grease 5kg

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
Initial boiling point and boiling range	100 °C		
Flash point	> 100 °C		① ISO 3679
Evaporation rate	No data available		
Vapour pressure	No data available		
Density	0.87 g/cm ³	20 °C	① DIN 51757
Water solubility	practically insoluble		

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Chemically stable under conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products

Incomplete combustion and thermolysis can produce gases of varying toxicity. In the case of products containing hydrocarbons, e.g. CO, CO₂, aldehydes and soot. These can be very dangerous if inhaled in high concentrations or in enclosed spaces.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Distillates (petroleum), hydrotreated light naphthenic	CAS No.: 64742-53-6	EC No.: 265-156-6
LD₅₀ oral:	>5,000 mg/kg (Rat)	
LD₅₀ dermal:	>3,000 mg/kg (Rabbit)	
propylene carbonate	CAS No.: 108-32-7	EC No.: 203-572-1
LD₅₀ oral:	34,600 mg/kg (Rat)	
LD₅₀ dermal:	>23,800 mg/kg (Rabbit)	
Polysulfides, di-tert-dodecyl	CAS No.: 68425-15-0	EC No.: 270-335-7
ATE (oral):	>2,000 mg/kg	
ATE (dermal):	>2,000 mg/kg	
LD₅₀ oral:	>2,000 mg/kg (Rat)	
LD₅₀ dermal:	>2,000 mg/kg (Rat) OECD 402	
LC₅₀ Acute inhalation toxicity (vapour):	>20 mg/L (Rat)	

Acute oral toxicity:

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

Acute dermal toxicity:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 17 Apr 2023

Print date: 23 Feb 2024

Version: 2



Page 7/10

Ultimate Grease 5kg

Acute inhalation toxicity:

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

Skin corrosion/irritation:

May cause allergic reactions.

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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.

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.

Additional information:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

11.2. Information on other hazards

Endocrine disrupting properties:

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Distillates (petroleum), hydrotreated light naphthenic	CAS No.: 64742-53-6	EC No.: 265-156-6
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LC₅₀: >100 mg/L 2 d (fish, Pimephales promelas)

EC₅₀: >10,000 mg/L 4 d (crustaceans, Daphnia magna)

NOEC: >10 mg/L 21 d (crustaceans, Daphnia magna)

Polysulfides, di-tert-dodecyl	CAS No.: 68425-15-0	EC No.: 270-335-7
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LC₅₀: >100 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203
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EC₅₀: >100 mg/L 2 d (crustaceans, Daphnia magna)
--

NOEC: >0.1 mg/L 2 d (crustaceans, Daphnia magna)

NOEC: >0.08 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata)

ErC₅₀: >100 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)

Assessment/classification:

The product is not: Ecotoxic

12.2. Persistence and degradability

Polysulfides, di-tert-dodecyl	CAS No.: 68425-15-0	EC No.: 270-335-7
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Biodegradation: Yes, slowly

Additional information:

There are no data available on the mixture itself. AOX (mg/l): 0

12.3. Bioaccumulative potential

propylene carbonate	CAS No.: 108-32-7	EC No.: 203-572-1
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Log K_{OW}: -0.41

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 17 Apr 2023

Print date: 23 Feb 2024

Version: 2



Page 8/10

Ultimate Grease 5kg

Polysulfides, di-tert-dodecyl CAS No.: 68425-15-0 EC No.: 270-335-7
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Log K_{ow} : > 12

Bioconcentration factor (BCF) : < 1
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Accumulation / Evaluation:

There are no data available on the mixture itself.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

Distillates (petroleum), hydrotreated light naphthenic CAS No.: 64742-53-6 EC No.: 265-156-6

Results of PBT and vPvB assessment: —
--

propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1
--

Results of PBT and vPvB assessment: —
--

Polysulfides, di-tert-dodecyl CAS No.: 68425-15-0 EC No.: 270-335-7
--

Results of PBT and vPvB assessment: —
--

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

12 01 12 *	spent waxes and fats
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*: Evidence for disposal must be provided.

Waste code packaging

12 01 12 *	spent waxes and fats
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15 01 10 *	packaging containing residues of or contaminated by dangerous substances
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*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Water (with cleaning agent). Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 17 Apr 2023

Print date: 23 Feb 2024

Version: 2



Page 9/10

Ultimate Grease 5kg

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Regulation (EC) No 1907/2006 ANNEX XVII

Restrictions on use:

Restrictions on use (REACH, Annex XVII) Entry 28, Entry 75

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AOX	Adsorbable Organic halogen compounds
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
IUCLID	International Uniform Chemical Information Database
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 17 Apr 2023

Print date: 23 Feb 2024

Version: 2



Page 10/10

Ultimate Grease 5kg

NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
RTECS	Registry of Toxic Effects of Chemical Substances
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.