Bio Release Agent MSDS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
Product identifier	**Product Name:** Bio Release Agent **Synonyms:** Very Low Odour Fully Biodegradable Formwork Release Agent. Mould release agent for application to concrete mixers /metal surfaces to stop concrete from sticking to.
Identified Use	Biodegradable Mould release agent / formwork release agent for the casting of concrete.
Supplier of Data Sheet	Cordek Limited, Spring Copse Business Park, Slinfold, West Sussex RH13 0SZ
Emergency telephone number	+44(0)1403 799600 Monday to Thursday: 8am-5pm and Friday: 8am-4pm

SECTION 2: HAZARDS INFORMATION	
Classification of the substance or mixture:	**In compliance with EC Regulation No. EC 1272/2008 and its amendments** Asp. Tox 1 H304 – May be fatal if swallowed and enters airways EUH066 Repeated exposure may cause skin dryness or cracking
Label Elements:	**In compliance with EC Regulation No. EC 1272/2008 and its amendments** **Contains:** Hydrocarbons C15-C19, n alkanes, isoalkanes <2% aromatics  **Signal Words:** DANGER *Hazard Phrases* ***H304*** – May be fatal if swallowed and enters airways. ***EUH066*** – Repeated exposure may cause skin dryness or cracking. *Precautionary Phrases* ***P102*** – Keep out of reach of children ***P243*** –Take precautionary measures against static discharge ***P280*** – Wear protective gloves/clothing/eye protection ***P301+P310*** – If SWALLOWED: Immediately call a POISON CENTER or Doctor/Physician ***P305+P35+P358*** – IF IN EYE: Rinse cautiously with water for several minutes. Remove contact lenses, if present & easy to do so. Continue rinsing ***P331*** – Do NOT induce vomiting ***P403 + P233*** – Store in a well ventilated place. Keep container tightly closed ***P314*** – Get medical attention if you feel unwell
Other hazards:	PBT: This product is not identified as a PVT/vPvB substance

SECTION 3: COMPOSITION ON INGREDIENTS

Mixtures:

Hazardous ingredients: HYDROCARBONS C12 Aromatics

Chemical Name	EINECS	CAS	Classification – REGULATION (EC) No 1272/2008	Percent
Hydrocarbons C15-C19, n alkanes, isoalkanes <2% aromatics	940-730-4		Asp Tox 1—H 304	50-100%

SECTION 4: FIRST AID MEASURES

Description of first aid measures:

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye Contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention promptly if symptoms occur after washing.

Ingestion: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Symptoms may be delayed. Immediate medical attention is required.

Inhalation: Remove victim immediately from source of exposure. Move into fresh air and keep at rest. Perform artificial respiration if breathing has stopped. Get medical attention if any discomfort continues.

General Information: Remove from exposure, lie down. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.

Most important symptoms and effects, both acute and delayed:

Skin contact: There may be very mild irritation at the site of contact

Eye Contact: May cause temporary eye irritation. Irritating and may cause redness and pain

Ingestion: Aspiration Hazard if swallowed. The product may enter the lungs due to its low viscosity, and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours). May cause stomach pain or vomiting.

Inhalation: Vapours inhaled in high concentrations have a narcotic effect on the central nervous system. Irritation of nose, throat and airway.

Indication of any immediate medical attention and special treatment needed:

Immediate /special treatment: Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES	
Extinguishing media:	***Extinguishing media:*** Extinguish with alcohol resistant foam, carbon dioxide or dry chemical powder. Water spray, fog or mist. Do not use water jet as an extinguisher, as this will spread the fire. Use water spray to cool containers.
Special hazards arising from the substance or mixture:	***Exposure hazards during Firefighting:*** During decomposition, toxic gases (CO, CO_2) are formed. Vapours may be ignited by a spark, a hot surface or an ember.
Advice for fire-fighters:	***Advice for fire-fighters:*** Keep up-wind to avoid fumes. If possible, fight fire from protected position. Move container from fire area if it can be done without risk. Use supplied air respirator if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control. Avoid water in straight hose stream; will scatter and spread fire. ***Protective equipment for fire-fighters:*** Self contained breathing apparatus and full protective clothing must be worn in case of fire. Wear PPE. Cool closed containers exposed to fire with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures:	***Personal precautions:*** Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Take precautionary measures against static discharges. Do not smoke, use open fire or other sources of ignition. Avoid inhalation of vapours and contact with skin and eyes.
Environmental precautions:	*Environmental; precautions:* Do not discharge onto the ground or into water courses. Do not allow ANY environmental contamination. Never use water by itself on spillage; this will spread the spill and cause further contamination.
Methods and material for containment and cleaning up:	***Clean up procedures:*** If leakage cannot be stopped, evacuate area. Clean-up personnel should use respiratory and/or liquid contact protection. Wash thoroughly after dealing with a spillage. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb spillage with non-combustible, absorbent material—sand, earth, diatomaceous clay. Place in a suitable container for disposal according to local regulations. Do not contaminate water sources or sewer. Inform Authorities if large amounts are involved.

SECTION 7: HANDLING AND STORAGE	
Precautions for safe handling:	***Handling requirements:*** Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented. Storage tanks and other containers must be grounded. Protect electric equipment against sparking in case of risk of explosion. Wear full protective clothing for prolonged exposure and/or high concentrations. Contaminated rags and cloths must be put in fireproof containers for disposal. Do not eat, drink or smoke when using the product. Container must be kept tightly closed.
Conditions for safe storage, including any incompatibilities:	***Storage conditions:*** Keep away from heat, sparks and open flame. Keep containers tightly closed. Flammable/combustible - Keep away from oxidisers, heat and flames. Ground container and transfer equipment to eliminate static electric sparks. ***Suitable packaging:*** Flammable liquid storage. Store in original supplied container in cool area. Stainless steel or High Density Poly- ethylene (HDPE) containers are suitable.
Specific end uses (s):	

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Control parameters:

Workplace exposure limits

Components	8 hour TWA	15 min STEL
Hydrocarbons C15-C19 n alkanes, isoalkanes <2% aromatics	No OEL exposure values	-

Exposure controls:

Process Conditions: Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash, quick drench.

Engineering measures: If mists or fumes are generated by high speed equipment or elevated temperatures mechanical or local exhaust ventilation may be required to keep exposure below recommended or statutory limits.

Respiratory protection: If ventilation is insufficient, suitable respiratory protection must be provided. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Check that mask fits tight and change filter regularly.

Hand protection: Protective oil resistant gloves must be used if there is a risk of direct contact or splash. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection: Wear splash-proof eye goggles to prevent any possibility of eye contact. If risk of splashing, wear safety goggles or face shield.

Skin protection: Use barrier creams to prevent skin contact. Provide eyewash station and safety shower. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures: Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated.

Promptly remove any clothing that becomes wet or contaminated. **DO NOT SMOKE IN WORK AREA!**

Protective Equipment: Protective Goggles & Gloves must be worn when handling and using product

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Initial Boiling Point/Range: 270-310°C

Flash Point: >128°C

Evaporation Rate (nBuAc=1): N/D

Upper Explosive Limits (vol % in air): 7.0% Lower Explosive Limits (vol % in air): 0.5% Vapour Pressure: No data available

Relative Vapour Density (air=1): >1

Relative Density (water=1): No data available

Solubility (ies): Solubility in water: Negligible @ 20°C

Partition Coefficient (n-octanol/water) (log Kow): 5-8.7

Auto-ignition Temperature: >200°C

Decomposition Temperature: N/D Viscosity: 1.68 mm2/s @ 20°C

Flammability (solid, gas) Not classified as a flammability hazard

Other information:

SECTION 10: STABILITY AND REACTIVITY	
Reactivity:	Not Chemically reactive. No decomposition if stored and applied as directed. Combustibles vapours may form with air. Take measures to prevent the build up of electrostatic charge.
Chemical stability:	Stable under normal temperature conditions and recommended use.
Possibility of hazardous reactions:	Hazardous reactions not anticipated. No dangerous reaction known under conditions of normal use. Will **NOT** polymerise.
Conditions to avoid:	Avoid heat, flames and other sources of ignition.
Incompatible materials:	***Materials to avoid:*** Strong oxidising substances.
Hazardous decomposition products:	None at ambient temperatures. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION	
Information on toxicological effects: *Hydrocarbons C12, n alkanes, isoalkanes <2% aromatics:*	**Toxicity values:** **Route** / **Species** / **Test** / **Value** / **Units** Acute Toxicity / Rat / Oral LD50 / >5000 / mg/kg Inhalation LD50 / Greater than near saturated vapour concentration Not classified as a sensitizer. Not classified carcinogenic. No effects on fertility No evidence of developmental toxicity. Target Organs Central nervous system Respiratory system, lungs Adverse Effects Vapours may cause drowsiness and dizziness. Irritating to respiratory system. Adverse Effects No known effects based on information supplied. Aspiration hazard The fluid can enter the lungs and cause damage (chemical pneumonitis, possibly fatal).
Symptoms / routes of exposure:	***Skin contact:*** Repeated exposure may cause skin dryness or cracking ***Eye contact:*** Mild irritation of eyes and mucous membranes. ***Ingestion:*** Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs. ***Inhalation:*** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication. **Health Warnings** ***Route of entry*** — Ingestion. May be fatal if swallowed. Aspiration Hazard. ***Target Organs*** — stomach, Respiratory system, lungs Mucous membranes **General Information** Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. **Medical Symptoms** Skin irritation. Irritation of eyes and mucous membranes. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. **Medical Considerations** Skin disorders and allergies. Convulsive disorders, CNS problems. Risk of chemical pneumonia after aspiration. ***Specific effects:*** No data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Eco toxicity values:

Species	Test	Value	Units
Algae	EC50 72 hours	>100	Mg/l
Daphinia magna	EC50 48 hours	>100	Mg/l
Fish	LC50 96 hours	>100	Mg/l

Persistence and degradability:	Readily Biodegradable. Oxidises rapidly by photo-chemical reactions in air.
Bioaccumulative potential:	Bioaccumulation is unlikely
Mobility in soil:	Floats on water. Readily absorbed into soil. Has low mobility.
Results of PBT and vPvB assessment:	***PBT identification:*** This product is not identified as a PVt/vPvB substance by current EU criteria
Hazardous decomposition products:	None at ambient temperatures. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

Waste treatment methods:

Disposal Operations: Dispose of waste and residues in accordance with local authority requirements. Do not allow run off to sewer, waterway or ground.

Waste Class: Hazardous Waste EWC NUMBER: Allocation of a waste code number in accordance with the European Waste Catalogue, should be carried out in agreement with an EA authorised waste disposal company. Waste code number 07 01 04

Disposal of packaging: Use an Authorised disposal company

NB: the users attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

This product does not require a classification for transportation

UN NUMBER:	N/A
UN proper shipping name:	***Shipping name:*** N/A
Transport Hazard Class:	***Transport class:*** N/A
Packing Group:	N/A
ENVIRONMENTAL HAZARDS:	***Environmentally hazardous:*** N/A ***Marine pollutant:*** N/A
Special precautions for user:	
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	N/A

SECTION 15: REGULATORY INFORMATION	
Safety, health and environmental regulations specific for the substance or mixture:	***Specific regulations:*** Not applicable
Chemical Safety Assessment:	Chemical safety assessment has not been carried out

SECTION 16: OTHER INFORMATION	
Other information:	**General information** Since empty containers retain product residue, follow label warnings, even after container is emptied. For further Health and Safety information contact: Health and Safety Officer. Residual vapours may explode on ignition, do not cut, drill, grind or weld on or near this container. ***Hazard Statements In Full*** ***H315*** – Causes skin irritation. ***H304*** – May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. ***H335*** – May cause respiratory irritation. ***EUH066*** – Repeated exposure may cause skin dryness or cracking. **Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product.