

llocut 175

In accordance with Industrial Safety and Health Act

Section 1. Chemical product and company identification

Product name Ilocut 175
Code 463637-KR01
SDS no. 463637
Supplier BP Korea Ltd.

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Republic of Korea

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EMERGENCY TELEPHONE

NUMBER

Carechem: +65 3158 1074 (24/7)

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

Use of the substance/ Metalworking fluid - neat.

mixture For specific application advice see appropriate Technical Data Sheet or consult our

company representative.

Section 2. Hazards identification

GHS Classification Not classified.

GHS label elements, including precautionary statements

Signal word No signal word.

Hazard statements No known significant effects or critical hazards.

Precautionary statements

Prevention
Response
Storage
Disposal
Other hazards which do not
Not applicable.
Not applicable.
Not applicable.
Defatting to the skin.

result in classification

Section 3. Composition/information on ingredients

Substance/mixture Mixture

Highly refined base oil and additives

Hazardous ingredients

Ingredient name	Synonym	CAS number	%
paraffinic "	Baseoil - unspecified; Distillates, petroleum, hydrotreated heavy paraffinic; Mineral oil, petroleum distillates, hydrotreated heavy paraffinic; Distillates (petroleum), hydro-treated	64742-54-7	93.75

Product name llocut 175

Product code 463637-KR01

Page: 1/11

Version 9

Date of issue 07/05/2024.

Format Republic of Korea

Language ENGLISH

Section 3. Composition/information on ingredients				
2,6-ditert-butyl-p-cresol	heavy paraffinic; Paraffin oil; HYDROTREATED HEAVY PARAFFINIC DISTILLATE; DISTILLATES (PETROLEUM) HYDROFVLD; Distillates (petroleum), hydrotreated heavy paraffinic, Baseoil - unspecified Phenol, 2,6-bis (1,1-dimethylethyl) -4-methyl-; 2,6-Bis (1,1-dimethylethyl) -4-methylphenol; Butylated hydroxytoluene; p-Cresol, 2,6-di-tert-butyl-; 4-Methyl-2,6-di-tert-butyl phenol; Dibutylated hydroxytoluene; BHT; 2,6-Di-t-butyl-4-methylphenol; E 321; BHT; butylated hydroxytoluene; 2,6-ditertiary-butyl-p-cresol; 4-methyl-2,6-ditertiary-butyl-p-cresol; 4-methyl-2,6-ditertiary-butylphenol;	128-37-0	0.2	
	2,6-DITERT-BUTYL-P- CRESOL			

Non-hazardous ingredients

Ingredient name	Synonym	CAS number	%
rade secret.			5.247 - 5.3
Trade secret. Trade secret.			0.5 0.2175

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

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Check for and remove any contact lenses. Get medical attention.

Skin contact Wash skin thoroughly with soap and water or use recognised skin cleanser.

Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

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

Specific treatments No specific treatment.

Notes to physicianTreatment should in general be symptomatic and directed to relieving any effects.

Product name llocut 175Product code463637-KR01Page: 2/11Version 9Date of issue 07/05/2024.Format Republic of KoreaLanguage ENGLISH6.0.1(South Korea)(ENGLISH)

Section 4. First aid measures

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

Section 5. Firefighting measures

Extinguishing media

Suitable In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Not suitable Do not use water jet.

Specific hazards arising S from the chemical

Swarf fires - Neat metal working oils may fume, thermally decompose or ignite if they come into contact with red hot swarf. To minimise the generation of red hot swarf ensure that a sufficient flow of oil is correctly directed to the cutting edge of the tool to flood it throughout cutting operations. As an additional precaution swarf should be regularly cleared from the immediate area to prevent the risk of fire. In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

Combustion products may include the following: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Special protective actions for fire-fighters

No action shall be taken involving any personal risk or without suitable training.

Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Concentrations of mist, fumes and vapours in enclosed spaces may result in the formation of explosive atmospheres. Excessive splashing, agitation or heating must be avoided. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid, as can bacteria, and as a result may induce allergic and other skin reactions, especially if personal hygiene is inadequate.

Product name Ilocut 175 Product code 463637-KR01 Page: 3/11

6.0.1

Version 9 **Date of issue** 07/05/2024.

Format Republic of Korea Language ENGLISH
(South Korea) (ENGLISH)

Section 7. Handling and storage

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. 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. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Not suitable

Prolonged exposure to elevated temperature

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
vistillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States). TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction
2,6-ditert-butyl-p-cresol	Ministry of Employment and Labor (Republic of Korea). TWA: 2 mg/m³ 8 hours. Issued/Revised: 1/2008 Form: Inhalable fraction and vapor

Biological exposure indices

No exposure indices known.

Other ingredients including trade secret: not applicable

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements 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.

(South Korea)

(ENGLISH)

Personal protective equipment

Product name llocut 175Product code463637-KR01Page: 4/11Version 9Date of issue 07/05/2024.Format Republic of KoreaLanguage ENGLISH

6.0.1

Section 8. Exposure controls/personal protection

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

For protection against metal working fluids, respiratory protection that is classified as "resistant to oil" (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, halfmask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m3), or any powered, air-purifying respirator equipped with hood or

helmet and HEPA filter (for oil mists less than 125 mg/m3). Where organic vapours are a potential hazard during metalworking operations, a

combination particulate and organic vapour filter may be necessary.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eye protection Hand protection Safety glasses with side shields.

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the

working conditions.

Skin protection Use of protective clothing is good industrial practice.

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 polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons

and/or impervious chemical suits and boots will be required.

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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and

safety showers are close to the workstation location.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state Liquid. Colour Yellow.

Odour Not available. **Odour threshold** Not available. pΗ Not applicable. Melting/freezing point Not available. Not available. **Boiling point, initial boiling**

point, and boiling range

Flash point Open cup: 212°C (413.6°F) [Cleveland]

Not available. **Evaporation rate**

Product name llocut 175 Product code 463637-KR01 Page: 5/11

Language ENGLISH Version 9 Date of issue 07/05/2024. Format Republic of Korea

> 6.0.1 (South Korea)

(ENGLISH)

Section 9. Physical and chemical properties

Flammability (solid, gas) Not available.

Not applicable. Based on - Physical state

Lower and upper explosive

(flammable) limits

Not available.

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Distillates (petroleum), hydrotreated heavy paraffinic	<0.08	<0.011	ASTM D 5191			

Solubility(ies)

Media	Result
water	Not soluble

Vapour density Not available. **Relative density** Not available.

Density <1000 kg/m3 (<1 g/cm3) at 15°C

Partition coefficient: n-

octanol/water

Not applicable.

Auto-ignition temperature Not available. **Decomposition temperature** Not available.

Viscosity Kinematic: 33.8 mm²/s (33.8 cSt) at 40°C

Molecular weight Not applicable as it is a mixture

Particle characteristics

Median particle size Not applicable.

Section 10. Stability and reactivity

The product is stable. Chemical stability

Possibility of hazardous

reactions

products

Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not

occur.

Conditions to avoid Avoid all possible sources of ignition (spark or flame).

Incompatible materials Reactive or incompatible with the following materials: oxidising materials.

Hazardous decomposition

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Information on likely routes of Routes of entry anticipated: Dermal, Inhalation.

exposure

Acute toxicity

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low

vapour pressure.

Ingestion No known significant effects or critical hazards.

Skin contact Defatting to the skin. May cause skin dryness and irritation.

Eye contact No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data.

Product name llocut 175 Product code 463637-KR01 Page: 6/11

Language ENGLISH Version 9 Date of issue 07/05/2024. Format Republic of Korea

Section 11. Toxicological information

Ingestion No specific data.

Skin Adverse symptoms may include the following:

dryness cracking

Eyes No specific data.

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

Product/ingredient Test Species Result Exposure Remarks

name

Not available.

Irritation/Corrosion

number

Not available for product and all ingredients.

Skin corrosion or irritation Not available for product

and all ingredients.

Serious eye damage/eye

irritation

Not available for product

and all ingredients.

Respiratory Irritation Not available for product

and all ingredients.

Sensitisation

Respiratory Sensitisation Not available for product

and all ingredients.

Skin Sensitisation Not available for product

and all ingredients.

Product/ingredient name Route of species Result Remarks

Not available for product and all ingredients.

CMR - ISHA Article 42 Public Notice No 2016-41 Occupational Exposure Limits

Product/ingredient name

Not available for product and all ingredients.

CAS number

Classification

Carcinogenicity

Not available for product and all ingredients.

Germ cell mutagenicity

Not available for product and all ingredients.

Reproductive toxicity

Product/ Test detail Species Exposure Developmental Maternal Fertility Remarks

ingredient name toxin toxicity

Not available for product and all ingredients.

Product name llocut 175 Product code 463637-KR01 Page: 7/11

Version 9 Date of issue 07/05/2024. Format Republic of Korea Language ENGLISH

Section 11. Toxicological information

Teratogenicity

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Name Category Route of Target organs exposure

Z,6-ditert-butyl-p-cresol Category 1 - central nervous

system (CNS)

Specific target organ toxicity (repeated exposure)

Name Category Route of Target organs

exposure

2,6-ditert-butyl-p-cresol Category 2 - liver, lungs

Potential chronic health effects

General
No known significant effects or critical hazards.
Carcinogenicity
No known significant effects or critical hazards.
Mutagenicity
No known significant effects or critical hazards.

Aspiration hazard

Not available for product and all ingredients.

Other information Not available.

Section 12. Ecological information

Ecotoxicity No known significant effects or critical hazards.

Persistence/degradability

Not expected to be rapidly degradable.

Mobility in soil Liquid. insoluble in water.

Bioaccumulative potential Not available.

Other adverse effects No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methodsThe generation of waste should be avoided or minimised 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 should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill

should only be considered when recycling is not feasible.

Disposal precautions This material and its container must be disposed of in a safe way. Empty containers

or liners may retain some product residues. Avoid dispersal of spilt material and

runoff and contact with soil, waterways, drains and sewers.

Product name llocut 175 Product code 463637-KR01 Page: 8/11

Version 9 Date of issue 07/05/2024. Format Republic of Korea Language ENGLISH

Section 14. Transport information

	IMDG	IATA
A. UN number	Not regulated.	Not regulated.
B. UN proper shipping name	-	-
C. Transport hazard class(es)	-	-
D. Packing group	-	-
E. Environmental hazards	No.	No.
F. Additional information	-	-

Special precautions for user Not available.

Section 15. Regulatory information

Regulation according to ISHA

ISHA article 117 (Harmful substances prohibited from manufacture)

None of the components are listed.

ISHA article 118 (Harmful substances requiring

None of the components are listed.

permission)

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

Distillates (petroleum), hydrotreated heavy paraffinic

2,6-ditert-butyl-p-cresol

ISHA Enforcement Regs Annex 19 (Exposure

None of the components are listed.

standards established for

harmful factors)

ISHA Enforcement Regs

Annex 21 (Harmful factors

subject to Work **Environment Measurement)**

None of the components are listed.

ISHA Enforcement Regs Annex 22 (Harmful Factors

Subject to Special Health

Check-up)

Standard of Industrial **Safety and Health Annex** 12 (Hazardous substances subject to control)

The following components are listed: metal working fluids: oil mist, mineral

None of the components are listed.

Regulation according to Chemicals Control Act

Product name Ilocut 175 Product code 463637-KR01 Page: 9/11 Date of issue 07/05/2024. Language ENGLISH Version 9 Format Republic of Korea

Section 15. Regulatory information

Article 20 Toxic Chemicals

(K-Reach Article 20)

Article 18 Prohibited (K-None of the components are listed.

Not applicable

Reach Article 27)

Article 20 Restricted (K-

Reach Article 27)

None of the components are listed.

CCA Article 11 (TRI) None of the components are listed. **CCA Article 39 (Accident** None of the components are listed.

Precaution Chemicals)

Dangerous Materials Class: Class 4 - Flammable Liquid Item: 6. Class 4 petroleums **Safety Management Act**

> Threshold: 6000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

Wastes regulation Designated Waste

Regulation according to other foreign laws

Australia inventory (AIIC) All components are listed or exempted. Canada inventory All components are listed or exempted. **China inventory (IECSC)** All components are listed or exempted.

REACH Status For the REACH status of this product please consult your company contact, as

identified in Section 1.

Japan inventory (CSCL) All components are listed or exempted. **Korea inventory (KECI)** All components are listed or exempted. **Philippines inventory** All components are listed or exempted.

(PICCS)

Taiwan inventory (TCSI) Not determined. **United States inventory** Not determined.

(TSCA 8b)

Section 16. Other information

History

Source of Information

Sources of key data used to compile the Safety Data Sheet: Hazard assessment review data, toxicological reviews, and product physical properties; component supplier hazard communication data; and other publically available resources.

Date first prepared

Number of revisions and date of last revision

07/05/2024.

11/02/2010

Prepared by

Product Stewardship

Key to abbreviations

AMP = Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists, an agency

that promulgates exposure standards.

ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail ADG Code = Australian Code for the Transport of Dangerous Goods by Road and

Rail

CAS Number = Chemical Abstracts Service Registry Number

HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for

Dangerous Goods in bulk.

ICAO = International Civil Aviation Organization.

Product name llocut 175 Product code 463637-KR01 Page: 10/11 Language ENGLISH Version 9 Date of issue 07/05/2024. Format Republic of Korea

Section 16. Other information

IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.

IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.

IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.) DMSO is a solvent.

NOHSC = National Occupational Health & Safety Commission, Australia REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]

TWA = Time weighted average

STEL = Short term exposure limit

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

TCCA = Toxic Chemical Control Act

GHS = Global Harmonized System

ISHA = Industrial Safety and Health Act

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

✓ Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

Product name llocut 175 Product code 463637-KR01 Page: 11/11

Version 9 Date of issue 07/05/2024. Format Republic of Korea Language ENGLISH