SAFETY DATA SHEET



Perfecto HT 5

Section 1. Identification

Product name	Perfecto HT 5
Product code	452472-AU22
SDS no.	452472
Use of the substance/mixture	Feat transfer fluid. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Product type	Liquid.
Supplier	Castrol New Zealand Limited 73 Remuera Road Newmarket Auckland, New Zealand
	www.castrol.com/nz Technical Helpline 0800 10 40 60
Emergency telephone number	0800 243643 (0800 CHEMHELP) (NZ use only)
New Zealand National Poisons Centre	0800 764 766 National Poison Centre

Section 2. Hazards identification

HSNO Classification

Not classified.

This material is not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

Routes of entry	Dermal contact. Eye contact. Inhalation.
GHS label elements	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Other hazards which do not result in classification	Defatting to the skin. Contact with hot product may cause burns.

Section 3. Composition/information on ingredients

Substance/mixture Mixture

▶ fighly refined base oil (IP 346 DMSO extract < 3%).

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic Distillates (petroleum), solvent-dewaxed heavy paraffinic		64742-54-7 64742-65-0

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.

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Section 4. First aid measures

Description of necessary first aid measures		
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.	
Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. Hot Product - Flood skin with cold water to dissipate heat, cover with clean cotton or gauze, obtain medical advice immediately. Cold Product - Wash contaminated skin with soap and water. Remove contaminated clothing and wash underlying skin as soon as reasonably practicable.	
Eye contact	Hot product - Flood with water to dissipate heat. In the event of any product remaining, do not try to remove it other than by continued irrigation with water. Obtain medical attention immediately. Cold product - Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.	
Indication of immediate medic	al attention and special treatment needed, if necessary	
Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects.	

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

Section 5. Firefighting measures

Protection of first-aiders

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 from the chemical	During use heat transfer oils may be thermally degraded leading to the formation of volatile hydrocarbons with flash points considerably lower than the original product. It is therefore essential that the system is not drained while hot unless an inert gas system is used to displace flammable gaseous residues. Adequate ventilation is essential during draining operations as hot oil will fume. The temperature at which spent product is drained is a compromise between the need to have the oil sufficiently hot to facilitate drainage, the need to avoid fuming and the dangers of fire from degraded oil with a low flash point. It is recommended therefore that spent oil is drained at a temperature of less than 100°C. During system filling and venting, care should be taken to ensure that hot oil is not pumped through the expansion tank. A failure to prevent this could, under certain conditions, lead to the creation of a flammable atmosphere in the expansion tank. As the expansion tank is being filled it is essential that the gases and vapours formed should be free to vent to an open atmosphere where they can quickly disperse. Oil soaked lagging may spontaneously ignite and should be replaced by fresh lagging as soon as possible. Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
Hazchem code	Not available.
Special precautions 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.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	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. Floors may be slippery; use care to avoid falling. Put on appropriate personal protective equipment (see Section 8).	
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
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 conta	ainment 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 (see Section 13). Dispose of via a licensed waste disposal contractor.	

Section 7. Handling and storage

Precautions for safe handling	Put on appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. 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

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	NZ HSWA 2015 (New Zealand). WES-TWA: 5 mg/m ³ 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m ³ 15 minutes. Issued/ Revised: 9/2010 Form: Mist
Distillates (petroleum), solvent-dewaxed heavy paraffinic	NZ HSWA 2015 (New Zealand). WES-TWA: 5 mg/m ³ 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m ³ 15 minutes. Issued/ Revised: 9/2010 Form: Mist

Section 8. Exposure controls/personal protection

procedures atmosphere or biological monitoring may be required to determine the effectivene of the ventilation or other control measures and/or the necessity to use respiration protective equipment. Reference is hould be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required. Appropriate angineering Provide enhaust ventilation or other angineering controls to keep the relevant altome concentrations below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensu exposures are adequately controlled. Personal protective equipment should only considered after other forms of control measures (e.g. engineering controls how been suitably evaluated. Personal protective equipment should conformation appropriate standards, be suitable for use, be kept in good condition and progenity maintained. Your supplier of personal protective equipment should be checked to ensi- they comply with the requirements of environmental protection legislation. In son cases, time scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Hygione measures Was hands, forearms and face thoroughly after handling cohemical protection safet. Very approval techniques should be used to remove potentially contaminated cithin Wash contaminated cithin before using. Ensure that eyewash stations and asfety showers are close to the workstation location. Hygione measures Wear suitable gloves. Hot material: to prevent thermal burns wear heat resistant and impervious gauniterial resistant gloves. Recommended: nitrile gloves. Cold material: wear safety glasses with side shi		
controls airborne concentrations below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensu exposures are adequately controlled. 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 nations organisation for standards. 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 Emissions from ventilation or work process equipment should be checked to ensite they comply with the requirements of environmental protection legislation. The organisation to they process equipment should be checked to ensite y comply with the requirements of environmental protection legislation. The organisation they comply with the requirements of environmental protection elgislation. The organisation is adviced to the workstation in cacino. Hygione measures Wash hands, forearms and face thoroughy after handling chemical products, befeating, 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 impervious gauntitis/gloves. Clod material: wear safety glasses with side shields. Hand protection Wear suitable equipression was active gloves. Recommended: nitrile gloves. The context horice of protective gloves depends upon the chemicale exposure anisk of splasting (low with ineraline reprised oreamin	Recommended monitoring procedures	standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
controlsthey comply with the requirements of environmental protection legislation. In som cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.Individual protection measuresWash hands, forearms and face thoroughly after handling chemical products, bel eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.Eye protectionHot material: to prevent thermal burns wear a helmet, full face visor and heat resistant neck flap / apron. Cold material: wear safety glasses with side shields. Safety glasses with side shields.Hand protectionWear suitable gloves. Hot material: to prevent thermal burns wear heat resistant and impervious gauntlets/gloves. Coid material: Wear chemical resistant gloves. Recommended: nitrile gloves. To correct choice of protective gloves depends upon the chemicals being handled, it conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). M gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices v safety procedures should be eveloped for each intended application. Cloves should therefore be chosen in consultation with the supplier/manufacturer and wit full assessment of the working conditions.Skin protectionUse of protective clothing is good industrial practice. Cotton or polyester/cotton overalts will only provide protective equipment to the body should be selected based on the task being performed a		airborne concentrations below their respective occupational exposure limits. 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. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal
Hygiene measuresWash hands, forearms and face thoroughly after handling chemical products, bef eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.Eye protectionHot material: to prevent thermal burns wear a helmet, full face visor and heat resistant neck flap / apron. Cold material: wear safety glasses with side shields.Hand protectionWear suitable gloves. Hot material: to prevent thermal burns wear heat resistant and impervious gaunitets/gloves. Cold material: Wear chemical resistant gloves. Recommended: nitrile gloves. To correct choice of protective gloves depends upon the chemicals being handled, ti conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). M gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices v safety procedures should be leveloped for each intended application. Gloves should therefore be chosen in consultation with the supplier/imanufacturer and wit full assessment of the working conditions.Skin protectionUse of protective clothing is good industrial practice. 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 a risk of splashing) then chemical resistant aproduct. In case of insufficient ventilation, wear suitable respirators, will not be adequate under conditions of oxygen		
 eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothin Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eye protection Hot material: to prevent thermal burns wear a helmet, full face visor and heat resistant neck flap / apron. Cold material: wear safety glasses with side shields. Safety glasses with side shields. Hand protection Wear suitable gloves. Hot material: to prevent thermal burns wear heat resistant and impervious gauntlets/gloves. Cold material: Wear chemical resistant gloves. Recommended: nitrile gloves. Th correct choice of protective gloves depends upon the chemicals being handled, th conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). M gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices v safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and wit full assessment of the working conditions. Skin protection Use of protective clothing is good industrial practice. Cotton or polyester/cotton overalls will loop trovide 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 a risk of splashing) then chemical resistant aprons and/or impervious chemical su and boots will be required. Personal protective equipment. Respirator protective equipment must be checked to ensure it fits correctly each time it is wo Air-filtering respirators, silo called air-purifying respirator	Individual protection measures	
Respiratory protectionUse of protective clothing is good industrial practice. Cotton or polyester/cotton overalls will only provide protection agains light supperficial contamination that will not soak of shields and bound be explored and the case and/or impervious clothing is protectionRespiratory protectionUse of protective clothing is good industrial protection against through the clock of solution of the site in the risk of skin exposure is highlight through the clock of protective clothing is good industrial practice. Cotton or polyester/cotton overalls will only provide only a specialist before handling this product.Respiratory protectionUse of protective clothing is good industrial practice. Cotton or polyester/cotton overalls will only provide protection against light supperficial contamination that will not soak through to the skin. Overalls should be cauping up spillages or if there a risk of spillasting the clock of encode and the risks involved and should be approved by a specialist before handling this product.Respiratory protectionIn case of insufficient ventilation, wear suitable respiratory equipment. Respirator by a specialist before handling this product.Respiratory protectionIn case of insufficient ventilation, wear suitable respiratory equipment. Respirator by a specialist before handling this product.Respiratory protectionIn case of insufficient ventilation, wear suitable respiratory equipment. Respirator by blad be considered suitable respiratory equipment. Respirator by a specialist before handling this product.Respiratory protectionIn case of insufficient ventilation, wear suitable respiratory equipment. Respirator by a specialist before handling this product.Respiratory protectionIn case of insufficient ventilation, wear suitable	Hygiene measures	Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and
 and impervious gauntlets/gloves. Cold material: 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). Migloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices visafety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and wit full assessment of the working conditions. Skin protection Use of protective clothing is good industrial practice. 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 a risk of splashing) then chemical protective equipment for the body should be approved by a specialist before handling this product. In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection explains under conditions of oxygen deficiency (i.e. low oxygen concentration), and would be considered suitable where airborme concentrations of chemicals with a signific hazard are present. In these cases air-supplied breathing apparatus will be required where there is suitable, a filter for particulates or be used. Use filter type P or comparable standard. Respiratory protective equipment is not normally required where there is adequate natural or local exhaits. 	Eye protection	resistant neck flap / apron. Cold material: wear safety glasses with side shields. Safety glasses with side
 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 a risk of splashing) then chemical resistant aprons and/or impervious chemical su and boots will be required. 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. In case of insufficient ventilation, wear suitable respiratory equipment. Respirator protective equipment must be checked to ensure it fits correctly each time it is we Air-filtering respirators, also called air-purifying respirators, will not be adequate under conditions of oxygen deficiency (i.e. low oxygen concentration), and would be considered suitable where airborne concentrations of chemicals with a signific hazard are present. In these cases air-supplied breathing apparatus will be required an air-filtering/air-purifying respirator is suitable, a filter for particulates or be used. Use filter type P or comparable standard. Respiratory protective equipment is not normally required where there is adequate natural or local exhance. 	Hand protection	Cold material: 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
protective equipment must be checked to ensure it fits correctly each time it is work Air-filtering respirators, also called air-purifying respirators, will not be adequate under conditions of oxygen deficiency (i.e. low oxygen concentration), and would be considered suitable where airborne concentrations of chemicals with a signific hazard are present. In these cases air-supplied breathing apparatus will be requi Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates of be used. Use filter type P or comparable standard. Respiratory protective equipment is not normally required where there is adequate natural or local exhau	Skin protection	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. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be
	Respiratory protection	under conditions of oxygen deficiency (i.e. low oxygen concentration), and would not be considered suitable where airborne concentrations of chemicals with a significant hazard are present. In these cases air-supplied breathing apparatus will be required Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can

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Section 8. Exposure controls/personal protection

	contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. A combination filter for particles, organic gases and vapours (boiling point >65°C) may be required if mist or fume is present as well as vapour. Use filter type AP or comparable standard. Approved air-supplied breathing apparatus must be worn where there is a risk of exceeding the exposure limit of carbon monoxide Approved air-supplied breathing apparatus must be worn where there is a risk of exceeding the exposure limit of carbon monoxide Approved air-supplied breathing apparatus must be worn where there is a risk of exceeding the exposure limit of carbon monoxide Approved air-supplied breathing apparatus must be worn where there is a risk of exposure to hazardous combustion and thermal decomposition products. 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. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.
Thermal hazards	Wear impervious and heat resistant coveralls covering the full body and limbs. 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.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	Liquid.
Colour	Amber.
Odour	Not available.
рН	Not applicable.
Melting point	Not available.
Boiling point	Not available.
Drop Point	Not available.
Flash point	Closed cup: >200°C (>392°F) [Pensky-Martens.]
Vapour pressure	Not available.
Vapour density	Not available.
Density	<mark>≮</mark> 1000 kg/m³ (<1 g/cm³) at 15°C
Solubility	insoluble in water.
Viscosity	Kinematic: 30.5 mm²/s (30.5 cSt) at 40°C Kinematic: 4.5 to 5.7 mm²/s (4.5 to 5.7 cSt) at 100°C

Section 10. Stability and reactivity

Chemical stability	The product is stable.
Possibility of hazardous reactions	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 Hazardous decomposition products	Reactive or incompatible with the following materials: oxidising materials. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on likely routes of exposure		
Inhalation	No known significant effects or critical hazards.	
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		

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Section 11. Toxicological information

InhalationNo specific data.IngestionNo specific data.Skin contactAdverse symptoms may include the following: irritation dryness crackingEye contactNo specific data.Potential chronic health effectsGeneralNo known significant effects or critical hazards.InhalationOverexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.IngestionIngestion of large quantities may cause nausea and diarrhoea.		-
Skin contactAdverse symptoms may include the following: irritation dryness crackingEye contactNo specific data.Potential chronic health effectsNo known significant effects or critical hazards.GeneralNo known significant effects or critical hazards.InhalationOverexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.IngestionIngestion of large quantities may cause nausea and diarrhoea.	Inhalation	No specific data.
irritation dryness crackingEye contactNo specific data.Potential chronic health effectsGeneralNo known significant effects or critical hazards.InhalationOverexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.IngestionIngestion of large quantities may cause nausea and diarrhoea.	Ingestion	No specific data.
Potential chronic health effectsGeneralNo known significant effects or critical hazards.InhalationOverexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.IngestionIngestion of large quantities may cause nausea and diarrhoea.	Skin contact	irritation dryness
GeneralNo known significant effects or critical hazards.InhalationOverexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.IngestionIngestion of large quantities may cause nausea and diarrhoea.	Eye contact	No specific data.
InhalationOverexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.IngestionIngestion of large quantities may cause nausea and diarrhoea.	Potential chronic health effect	<u>ets</u>
of the respiratory tract. Ingestion Ingestion of large quantities may cause nausea and diarrhoea.	General	No known significant effects or critical hazards.
	Inhalation	
Object of the second of the second of the second se	Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
or dermatitis.	Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.	Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.
Carcinogenicity No known significant effects or critical hazards.	Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity No known significant effects or critical hazards.	Mutagenicity	No known significant effects or critical hazards.
Teratogenicity No known significant effects or critical hazards.	Teratogenicity	No known significant effects or critical hazards.
Developmental effects No known significant effects or critical hazards.	Developmental effects	No known significant effects or critical hazards.
Fertility effects No known significant effects or critical hazards.	Fertility effects	No known significant effects or critical hazards.

Section 12. Ecological information

Ecotoxicity

No known significant effects or critical hazards.

Persistence and degradability

Expected to be biodegradable.

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

<u>Mobility in soil</u>

mounty mount	
Mobility	Spillages may penetrate the soil causing ground water contamination.
Soil/water partition coefficient (Koc)	Not available.
Other ecological information	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

Section 13. Disposal considerations

Disposal methods	The 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. 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.

Section 14. Transport information

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Section 14. Transport information						
Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
New Zealand Class	Not regulated.	-	-	-		-
ADG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-

PG* : Packing group

Section 15. Regulatory information

New Zealand Regulatory Inform	nation
HSNO Approval Number	None assigned.
HSNO Group Standard	None assigned.
HSNO Classification	Not classified.
Regulation according to other	foreign laws
REACH Status	For the REACH status of this product please consult your company contact, as identified in Section 1.
United States inventory (TSCA 8b)	All components are active or exempted.
Australia inventory (AICS)	All components are listed or exempted.
Canada inventory status	All components are listed or exempted.
China inventory (IECSC)	All components are listed or exempted.
Japan inventory (ENCS)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	18 August 2021
Date of previous issue	22 April 2021.
Version	2
Prepared by	Not available.
Key to abbreviations	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

Notice to reader

✓ Indicates information that has changed from previously issued version.

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

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			(ENGLISH)

Section 16. Other information

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.