Parker Hannifin Ltd.
Engineered Materials Group
Chomerics Division Europe
Unit 6 Century Point Halifax Road
High Wycombe Bucks, HP12 3SL
United Kingdom
Telephone: 044 (0) 1494 455 400

SDS Revision Date (dd/mm/yyyy): 23/05/2025
Revision No.: 5

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended. This safety data sheet complies with the requirements of UK REACH Regulation.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : **CHO-SHIELD® 2002, Part C**

Product Code(s) : 52-00-2002-0000, 52-00-2002-1000, 52-01-2002-0000, 52-03-2002-0000, 52-04-2002-0000

UFI-NV10-W01K-Q00S-QC0H

SDS No. : PHC-022 EU

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

: Product Component Methyl Ethyl Ketone/Triazole Blend
Use pattern: professional use
No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Parker Hannifin Ltd.
Engineered Materials Group
Chomerics Division Europe
Unit 6 Century Point
Halifax Road
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Bucks, HP12 3SL
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E-mail: chomerics_europe@parker.com
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Parker Hannifin Manufacturing France SAS
ZAC des Epineaux
7 avenue Louis Blériot
95740 Frépillon, France
Telephone : 033 (01) 34 32 39 00
Email: parker.france@parker.com
Website: www.parkerfrance.fr

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1.4 Emergency Telephone Number

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: INFOTRAC: (800) 535-5053 (US and Canada); + 001 (352) 323-3500 (International)
Poisons Information Centre
Czech Republic +420267082236, +420267082230, +420267082229
Denmark +45 72 54 40 00
France +33383852192
Finland +358 5052 000
Germany +493018412-0
Hungary +36 (1) 476 1135
The Netherlands +31887558561
Norway +47 73 58 05 00
The United Kingdom NHS111
Poland +48422538400
Sweden +46104566750
Italy
06 68593726 (CAV “Osp. Pediatrico Bambino Gesu” Dip. Emergenza - Roma) 800 183459 (Az. Osp. Univ. Foggia - Foggia)
081 5453333 (Az. Osp. "A. Cardarelli" - Napoli)
06 49978000 (CAV Policlinico "Umberto I" - Roma)
06 3054343 (CAV Policlinico "A. Gemelli" - Roma)
055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze)
0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia) 02 66101029 (Osp. Niguarda Ca' Granda - Milano)
800 883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo)

1.5 National Contact

: E-mail: chomerics_europe@parker.com
Website: www.chomerics.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Clear liquid. Solvent odour.

Most important hazards:
Highly flammable liquid and vapour. This material may be ignited by heat, sparks and direct flame.
Causes serious eye damage. Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:
Flammable liquid - Category 2; H225
Eye damage/irritation - Category 1; H318
Specific target organ toxicity, single exposure - Category 3; H336
EUH066

2.2 Label elements

Hazard pictogram(s)



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Hazardous components which must be listed on the label:
Aromatic triazole; Butanone

Signal word:
DANGER!

Hazard statements:
H225 - Highly flammable liquid and vapour.
H318 - Causes serious eye damage.
H336 - May cause drowsiness or dizziness.

Precautionary statements:
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.
P280 - Wear protective gloves and eye/face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container in accordance with local regulation.

Supplemental Hazard Statements:
EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Other hazards which do not result in classification:
Burning produces obnoxious and toxic fumes. May form explosive peroxides during prolonged exposure to air and heat. Rate of peroxide formation is not known. Mild respiratory irritant. Mild skin irritant. May cause gastrointestinal irritation.

Endocrine disrupting properties: Not applicable.

PBT assessment:
This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature - Mixture of: Aromatic triazole; Ketones.
The following substances shall be indicated according to legislation:

Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
Butanone	78-93-3	201-159-0	Present	**80.0 - 100.0**	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	Not applicable.

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Acetylacetone	123-54-6	204-634-0	Not available	**5.0 - 10.0**	Acute Tox. 4; H302 ; Acute Tox. 4 ;H332 Flam. Liq. 3 ;H226	ATE oral = 5701.25 mg/kg ATE dermal = 7905.13 mg/kg
Aromatic triazole	N/Av	Not available.	Present	**5.0 - 10.0**	Eye Dam. 1; H318	Not applicable.

The classifications listed for the following chemicals are in addition to those appearing in Annex VI of Regulation (EC) No. 1272/2008: Acetyl acetone

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion : Do not induce vomiting. Never give anything by mouth to a person who is unconscious or is having convulsions. When symptoms persist or in all cases of doubt, seek medical advice.

Inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. When symptoms persist or in all cases of doubt, seek medical advice.

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

4.1.2 Self-protection for the first aider

: Wear protective gloves and eye/face protection.

4.2 Most important symptoms and effects, both acute and delayed

: Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May result in irreversible corneal injury.
Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.
Mild respiratory irritant. Symptoms may include coughing, mucous production and difficulty breathing.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

: Immediate medical attention is required. Causes serious eye damage.
Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog

Unsuitable extinguishing media

: None known.

5.2 Special hazards arising from the substance or mixture

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: Highly flammable liquid and vapour. Will be ignited by heat, sparks, flame, or other ignition sources. Vapours are heavier than air and may spread along floors. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Nitrogen oxides (NOx).

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment.

6.2 Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. Use inert, non-combustible absorbents to assist the pick up of material. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

6.4 Reference to other sections

: Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear protective gloves and eye/face protection. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

7.2 Conditions for safe storage, including any incompatibilities

: Store in cool/well-ventilated place. Inspect periodically for damage or leaks. No smoking. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Do not store near any incompatible materials (see Section 10).

7.3 Specific end use(s) : Coating

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:

Chemical Name	Exposure Limits	Type	Notes
Butanone	200 ppm (600 mg/m³) (TWA) 300 ppm (900 mg/m³) (STEL)	European Union (OEL)	None.
	600 mg/m³ (TWA) 900 mg/m³ (Ceiling Limit Value)	Czech Republic (OEL)	None.
	50 ppm (145 mg/m³) (TWA)	Denmark (OEL)	Potential for cutaneous absorption
	100 ppm (300 mg/m³) (STEL)	Finland (OEL)	Potential for cutaneous absorption
	200 ppm (600 mg/m³) (TWA) 300 ppm (900 mg/m³) (STEL)	France (OEL)	Risk of cutaneous absorption
	200 ppm (600 mg/m³) (exposure factor 1) (TWA)	Germany (OEL)	Skin notation
	600 mg/m³ (TWA) 900 mg/m³ (STEL)	Hungary (OEL)	Potential for cutaneous absorption irritating
	200 (600 mg/m³) (TWA) 300 ppm (900 mg/m³) (STEL)	Italy (OEL)	None.
	590 mg/m³ (TWA) 900 mg/m³ (STEL)	Netherlands (OEL)	Skin notation
	450 mg/m³ (TWA) 900 mg/m³ (STEL)	Poland (OEL)	Skin notation
	200 ppm (600 mg/m³) (TWA) 300 ppm (900 mg/m³) (STEL)	Spain (OEL)	None.
	50 ppm (150 mg/m³) (TWA) 100 ppm (300 mg/m³) (STEL)	Sweden (OEL)	None.
	200 ppm (600 mg/m³) (TWA) 300 ppm (899 mg/m³) (STEL)	The United Kingdom (WELs)	Potential for cutaneous absorption
Acetylacetone	None known.	European Union (OEL)	None.
	;20 ppm MAK; 83 mg/m³ MAK;20 ppm MAK; 83 mg/m³ MAK	Germany (OEL)	Skin notation
Aromatic triazole	None known.	European Union (OEL)	None.

Biological Exposure Indices:

Chemical Name	Biological Exposure Indices	Type

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Butanone		
	70 µmol/L, Determinant: Butan-2-one, Specimen: Urine	UK. EH40 Biological Monitoring Guidance Values (BMGVs)
	5 mg/L, Determinant: 2-butanone, Specimen: Urine	Germany. TRGS 903, BAT List (Biological Limit Values)
	2 mg/L, Determinant: Antänds av värme, gnistor, lågor eller andra antändningskällor., Specimen: Urine	Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4
	2 mg/L, Determinant: Antänds av värme, gnistor, lågor eller andra antändningskällor., Specimen: Urine	France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):
CAS 78-93-3) general population oral systemic effects long term exposure 31 mg/kg; general population inhalation systemic effects long term exposure 106 mg/m3 ; general population dermal systemic effects long term exposure 412 mg/kg ; workers inhalation systemic effects long term exposure 600 mg/m3 ; workers dermal systemic effects long term exposure 1161 mg/kg bw/day

Predicted No Effect Concentration (PNEC):
CAS 78-93-3) 55.8 mg/L C (freshwater); 55.8 mg/L (marine water); 55.8 mg/L (freshwater intermittent releases); 1000 mg/kg food 284.74 mg/kg (sediment (freshwater); 284.7 mg/kg (sediment marine water; 709 mg/L (sewage treatment; 22.5 mg/kg (soil)

8.2 Exposure controls

Ventilation and engineering measures
: Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof electrical and ventilating equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Advice should be sought from respiratory protection specialists.

Skin protection : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Wear suitable protective clothing. Depending on conditions of use, an impervious apron should be worn.

Eye / face protection : Wear eye/face protection. Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles. A full face shield may also be necessary. See also EN 166.

Other protective equipment
: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards. .

General hygiene considerations
: Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure controls

: Avoid release to the environment.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Clear liquid.
Colour : Clear
Odour : Solvent odor.
Odour threshold : No information available.
pH : No information available.
Flash point : - 5°C (based on ingredients)
Flashpoint (Method) : closed cup
Lower flammable limit (% by vol.)
: No information available.
Upper flammable limit (% by vol.)
: No information available.
Auto-ignition temperature
: No information available.
Decomposition temperature
: No information available.
Oxidizing properties : Not applicable
Explosive properties : Not explosive
Initial boiling point and boiling range
: > 79.6°C (based on ingredients)
Melting/Freezing point : No information available.
Relative density : > 1
Solubility in water : Appreciable.
Other solubility(ies) : No information available.
Vapour pressure : No information available.
Vapour density : > 1 (Air = 1.0)
Partition coefficient: n-octanol/water
: No information available.
Viscosity : No information available.
Evaporation rate (BuAe = 1)
: No information available.
Particle characteristics : Not applicable.

9.2 Other Information

Volatiles (% by weight) : 93%
Volatile organic Compounds (VOC's)
: 778 g/L
Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

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10.2 Chemical stability : Stable under normal conditions. May form explosive peroxides during prolonged exposure to air and heat. Rate of peroxide formation is not known.

10.3 Possibility of hazardous reactions
: Hazardous polymerization does not occur.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

10.5 Incompatible materials
: Strong oxidizing agents; Strong acids; Halogenated compounds; Strong bases

10.6 Hazardous decomposition products
: None known.
Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Nitrogen oxides (NOx).

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

Skin corrosion/Irritation : According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.

Serious eye damage/irritation
: This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:
Eye damage/irritation - Category 1. Causes serious eye damage.

Respiratory or skin sensitisation
: Not expected to be a skin or respiratory sensitizer.

Germ cell mutagenicity : Contains no ingredient listed as a mutagen.

Carcinogenicity : Contains no ingredient listed as a carcinogen.

Reproductive toxicity : Contains no ingredient listed as toxic to reproduction.

STOT-single exposure : This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:
Specific target organ toxicity, single exposure - Category 3. May cause drowsiness or dizziness.

STOT-repeated exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

Aspiration hazard : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

Routes of exposure : Eye contact; Skin contact; Skin Absorption; Inhalation; Ingestion

Effects of acute exposure : Inhalation: Mild respiratory irritant. Symptoms may include coughing, mucous production and difficulty breathing. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.

Skin contact: Direct skin contact may cause slight or mild, transient irritation. Can be absorbed through skin.

Eye contact: Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision. May result in irreversible corneal injury.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

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Potential Chronic Health Effects

: Repeated exposure may cause skin dryness or cracking.

11.1.1 Acute Toxicity

Toxicological data : No data is available on the product itself. The calculated ATE values for this mixture are: ATE oral = 2158 mg/kg
ATE dermal = 24.8 mg/L

See below for individual ingredient acute toxicity data.

Chemical name	LC_{50}(4hr) inh, rat	LD_{50} (Oral, rat)	LD_{50} (Rabbit, dermal)
Butanone	11 300 ppm (33.3 mg/L (vapour)	2740 mg/kg	6480 mg/kg
Acetylacetone	1250 ppm (5.1 mg/L) (vapour)	570 mg/kg	790 mg/kg
Aromatic triazole	N/Av	N/Av	N/Av

11.2 Information on other Hazards

: Not applicable

11.2 Information on other hazards
11.2.1 Endocrine disrupting properties :No information available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : No data is available on the product itself. Should not be released into the environment.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Butanone	78-93-3	2993 mg/L (Fathead minnow)	No information available.	None.
Acetylacetone	123-54-6	60.1 mg/L (Bluegill sunfish)	N/Av	None.
Aromatic triazole	N/Av	N/Av	N/Av	N/Av

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Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Butanone	78-93-3	308 mg/L (Daphnia magna)	No information available.	None.
Acetylacetone	123-54-6	34.4 mg/L (Daphnia magna)	N/Av	None.
Aromatic triazole	N/Av	N/Av	N/Av	N/Av

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Butanone	78-93-3	1972 mg/L/72hr (Green algae)	1240 mg/L/96hr	None.
Acetylacetone	123-54-6	8.36 mg/L/72hr (Green algae)	3.2 mg/L/72hr	None.
Aromatic triazole	N/Av	N/Av	N/Av	N/Av

12.2 Persistence and degradability

: The product itself has not been tested.
The following ingredients are considered to be readily biodegradable: Butanone.

12.3 Bioaccumulation potential

: The product itself has not been tested. See the following data for ingredient information.

Aromatic triazole (CAS N/Av)	N/Av	N/Av

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Butanone (CAS 78-93-3)	0.29	3.0
Acetylacetone (CAS 123-54-6)	0.68	

12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Endocrine disrupting properties

: Not applicable

12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information : Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Parker Hannifin Ltd.
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Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.

Methods of Disposal : Empty containers may contain hazardous residues. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken for local recycling or waste disposal.
Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	**14.1 UN Number**	**14.2 UN proper shipping name**	**14.3 Transport hazard class(es)**	**14.4 Packing Group**	*Label*
ADR/RID	UN1993	FLAMMABLE LIQUID, N.O.S. (Methyl Ethyl Ketone)	3	II	
EU ADR/RID Classification Code	F1 - Flammable liquids having a flash-point of or below 61 °C				
EU ADR / RID Hazard Identification Number	30 - flammable liquid (flash-point between 23 °C and 61 °C, inclusive)				
ADR/RID Additional information					
ICAO/IATA	UN1993	Flammable liquid, n.o.s. (Methyl Ethyl Ketone)	3	II	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				
IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Methyl Ethyl Ketone)	3	II	
IMDG Additional information	Consult the IMDG regulations for exceptions.				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

14.6 Special precautions for user

: Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

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SECTION 15. REGULATORY INFORMATION

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

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.

Authorisations
Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:
None of the components are specifically listed.

Restrictions on use
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:
Refer to restrictions found in REACH Annex XVII item 75.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:
P5c FLAMMABLE LIQUIDS

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:
Butanone (CAS # 78-93-3)
Aromatic triazole (Proprietary)
Acetyl acetone (CAS # 123-54-6)

Directive 94/33/EC on the protection of young people at work:
Butanone (CAS # 78-93-3)
Acetyl acetone (CAS # 123-54-6)
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2020/878].

Follow national regulation for work with chemical agents.

German legislation on water endangering substances AWSV: Water contaminating class (Germany): 2 (self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended. This safety data sheet complies with the requirements of UK REACH Regulation.

SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE: Acute Toxicity Estimate
CAS: Chemical Abstract Services
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC: European Community
EC50: Effective Concentration 50%
EEC: European Economic Community
EN: European Standard
EU: European Union
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
LC: Lethal Concentration
LD: Lethal Dose
NOEC: No observable effect concentration
OECD: Organisation for Economic Co-operation and Development
OEL: National occupational exposure limits
PEL: Permissible exposure limit
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL: Short Term Exposure Limit
TWA: Time Weighted Average

Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases
3. European Chemicals Agency, Classification Legislation

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Revision No. : 5

Revision Information : All sections modified.

Regulation and Procedure :

Flammable.; Flash point
Eye irritation ;Expert judgement
Specific target organ toxicity, single exposure; Expert judgement

H-phrases (full-text)

H225 - Highly flammable liquid and vapour. H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
EUH066 - Repeated exposure may cause skin dryness or cracking.

Other special considerations for handling : Provide adequate information, instruction and training for operators.

SAFETY DATA SHEET

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