Safety Data Sheet

according to Regulation (EC) No 1907/2006

M-Flush

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

1.1. Product identifier

M-Flush, REF. 3161300, 3161350, 3345001

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

Use of the substance/mixture

engine cleaner

1.3. Details of the supplier of the safety data sheet

Company name:	XENUM N.V.	
Street:	Steenkaaistraat 17	
Place:	B-9200 Dendermonde	
Telephone:	+32 52 223808	Telefax: +32 52 22 51 60
e-mail:	info@xenum.eu	
Contact person:	Peter Tossyn	

1.4. Emergency telephone number:

+32 479 82 08 08

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This mixture is not classified as hazardous according to Directive 1999/45/EC.

GHS classification

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Special labelling of certain mixtures

Operate if possible out of doors or in a well-ventilated place.

Additional advice on labelling

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

2.3. Other hazards

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.
The components in this formulation do not meet the criteria for classification as PBT or vPvB .

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Hydraulic fluids

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
	Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs	10 - < 15 %
84605-20-9	R53	
	Aquatic Chronic 4; H413	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If victim is at risk of losing consciousness, position and transport on their side. Provide fresh air.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Give nothing to eat or drink. Do NOT induce vomiting.

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

The following symptoms may occur: Allergic reactions.

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

Hazards identification: Lung irritation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing powder. Carbon dioxide (CO_2). Sand.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes. Can be released in case of fire: Carbon dioxide (CO_2). Carbon monoxide.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.
Fire class B: Burning liquid or melting substances.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Keep away from unprotected people. Keep upwind. Wear personal

protection equipment. (refer to chapter 8) Eliminate all ignition sources if safe to do so.

6.2. Environmental precautions

Spilled product must not leak into the ground. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: diatomaceous earth. Do not rinse down with water.

6.4. Reference to other sections

See protective measures under point 7 and 8.
Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.

Advice on protection against fire and explosion

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition.

Further information on handling

Avoid contact with skin and eyes.
Take precautionary measures against static discharge.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs. Keep away from sources of ignition. - No smoking.

Further information on storage conditions

Suitable floor material: Solvent-proof.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls




Appropriate engineering controls

Refer to chapter 7. No further action is necessary.

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.
Street clothing should be stored seperately from work clothing.

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. gemäß DIN EN 166

Hand protection

Tested protective gloves are to be worn: nach DIN EN 374
Suitable material:
NBR (Nitrile rubber).
Thickness of glove material:: 0,45 mm; penetration time (maximum wearing period): 480 min
NR (Natural rubber (Caoutchouc), Natural latex).
Thickness of glove material:: 0,45 mm; penetration time (maximum wearing period): 10 min
CR (polychloroprenes, Chloroprene rubber).
Thickness of glove material:: 0,75 mm; penetration time (maximum wearing period): 60 min

Addtional protection measures for the hands: Before using check leak tightness / impermeability.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: insufficient absorbtion. und prolonged action.
gas filtering equipment (EN 141). A2 (brown)
Use only respiratory protection equipment with CE-symbol including four digit test number.
Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	amber coloured
Odour:	mild

		Test method
pH-Value:	Not applicable.	
Changes in the physical state		
Melting point:	< 0 °C	
Initial boiling point and boiling range:	> 200 °C	DIN 53171
Flash point:	> 190 °C	DIN 51755
Flammability		
Solid:	Undetermined.	
Gas:	Undetermined.	
Explosive properties		
not Explosive.		
Lower explosion limits:		DIN 51649
Upper explosion limits:		DIN 51649
Auto-ignition temperature		200 °C
Solid:	Undetermined.	
Gas:	Undetermined.	
Decomposition temperature:	Undetermined.	
Oxidizing properties		
not oxidizing.		
Vapour pressure: (at 20 °C)	0,1 hPa	
Density (at 20 °C):	0,905 g/cm³	DIN 51757
Partition coefficient:	Undetermined.	

Viscosity / kinematic: (at 40 °C)	0,7 mm²/s
Flow time:	3 DIN EN ISO 2431
Vapour density:	Undetermined.
Evaporation rate: (at 20 °C)	Undetermined.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

In case of warming: Explosion hazard.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

In case of warming: Explosion hazard.

10.4. Conditions to avoid

heat.
In case of warming: Risk of selfignition.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Irritation and corrosivity

After skin contact: In case of skin irritation, seek medical treatment.
May cause respiratory irritation. Practical experience.

Sensitising effects

May cause sensitization by skin contact.

Severe effects after repeated or prolonged exposure

Has de-greasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity LC50: 100-1000 g/m³ (96 h) Oncorhynchus mykiss

12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

AOX: The product contains no organically bound Halogen.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Carry out a burning of harzardous waste according to official regulations.

Waste disposal number of waste from residues/unused products

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures
Classified as hazardous waste.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

Sources of the most important data: 2001/118/EG,1999/45/EG, 91/155/EWG, 67/548/EWG, (EG) 1907/2006, (EG) 1272/2008, GefStoffV, WRMG, WHG, TRG 300, TRGS 200, TRGS 220, ADR 2013, IMDG-Code

National regulatory information

Employment restrictions:	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D):	1 - slightly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

53 May cause long-term adverse effects in the aquatic environment.

Full text of H statements referred to under Sections 2 and 3

H413 May cause long lasting harmful effects to aquatic life.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.
The receiver of our product is singulary responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)