Safety Data Sheet

#J01230, #J01250, #J01270, JLM Valve Saver Fluid

Issue date 16-Jun-2016 **Revision date** 16-Jun-2016 **Version** 2

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

1.1. Product Identifier

Product name #J01230, #J01250, #J01270, JLM Valve Saver Fluid

Pure substance/mixture Mixture

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

Recommended Use Fuel additive***
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

JLM Lubricants b.v.
Schiphol Boulevard 127
1118 BG Alkmaar
The Netherlands
+31 (0)20 201 4995

For further information, please contact

Contact Point R&D
E-mail address info@jlmlubricants.com

1.4. Emergency telephone number

Emergency telephone +31(0) 20 201 4995

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008
.***

Aspiration toxicity	Category 1*** - (H304)***
Skin corrosion/irritation	Category 2*** - (H315)***
Serious eye damage/eye irritation	Category 2*** - (H319)***

2.2. Label Elements

Product Identifier
Contains Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclics, <2% aromatics, Kerosine (petroleum), Solvent naphtha (petroleum), heavy aromatic

.***

Signal Word
DANGER***

Hazard statements
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation***

Precautionary Statements - EU (§28, 1272/2008)
P280 - Wear protective gloves and eye/face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P331 - Do NOT induce vomiting***

2.3. Other Hazards
No information available

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable***

3.2 Mixtures***

***

Chemical name	EC No	CAS No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclics, <2% aromatics***	926-141-6***	64742-47-8	01-2119456620-43*** *	Asp. Tox. 1 (H304) (EUH066) ***	5-10
2-Ethyl-1-Hexanol***	203-234-3	104-76-7	01-2119487289-20	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT SE 3 (H335)	5-10
Potassium 1,2-bis(2-ethylhexyloxycarbonyl) ethanesuphonate***	231-308-5***	7491-09-0	No data available	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) ***	1-5
Kerosine (petroleum)***	232-366-4***	8008-20-6	No data available	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) ***	1-5
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics***	265-149-8***	64742-47-8	01-2119456620-43*** *	Asp. Tox. 1 (H304) ***	0.1-1

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	When in doubt or if symptoms are observed, get medical advice.
Inhalation	Remove to fresh air. If symptoms persist, call a doctor.***
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a doctor. Wash contaminated clothing before reuse.***
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists: Get medical advice/attention.***
Ingestion	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a doctor.***
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.***

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

Symptoms Irritating to skin. Causes serious eye irritation. Respiratory complaints.***

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

Note to doctors Observe risk of aspiration if vomiting occurs.***

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media
Use. Carbon dioxide (CO2). Extinguishing powder. Alcohol resistant foam. Cool containers with flooding quantities of water until well after fire is out.

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapours

Hazardous combustion products Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx).

5.3. Advice for firefighters

In the event of fire and/or explosion do not breathe fumes. Use water spray jet to protect personnel and to cool endangered containers. Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required. Do not allow run-off from fire-fighting to enter drains or water courses.***

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Special danger of slipping by leaking/spilling product. Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapour/spray. Evacuate personnel to safe areas.***

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

See Section 12 for additional Ecological Information.***

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.***

6.4. Reference to other sections

See section 8 for national exposure control parameters. See Section 12 for additional Ecological Information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapour/spray. Use personal protective equipment as required. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Avoid contact with skin, eyes or clothing.***

General hygiene considerations
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Never use pressure to empty; drum is not a pressure vessel.

7.3. Specific end use(s)

Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits .***

Chemical name	European Union	United Kingdom	France	Spain	Germany
Kerosine (petroleum)*** 8008-20-6	-	-	-	S****	-
Chemical name	**Italy**	**Portugal**	**Netherlands**	**Finland**	**Denmark**
Kerosine (petroleum)*** 8008-20-6	-	TWA: 200 ppm***	-	-	-
Chemical name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
Kerosine (petroleum)*** 8008-20-6	-	-	STEL: 300 mg/m³ TWA: 100 mg/m³***	-	-
Chemical name	**Sweden**	**Belgium**	**Greece**	**Turkey**	**Czech Republic**
Kerosine (petroleum)*** 8008-20-6	-	200 mg/m³ TWA (application limited to exposure conditions to negligible aerosols, total hydrocarbon vapor) Skin***	-	-	-

Derived No Effect Level (DNEL)	No information available
Predicted No Effect Concentration (PNEC)	No information available.

8.2. Exposure controls

Engineering controls	Eyewash stations. Provide adequate ventilation as well as local exhaustion at critical locations.***
Personal Protective Equipment	
Eye/face Protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.***
Skin and Body Protection	Suitable protective clothing. Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.*** Gloves must conform to standard EN 374***
Respiratory protection	Respiratory protection necessary at:. insufficient ventilation. exposure limit overshoot. insufficient exhaust. Handling larger quantities. Use. :. Positive Pressure Self-Contained Breathing Apparatus (SCBA). /. Filtering device (full mask or mouthpiece) with filter.***
Recommended Filter type:	ABEK1/ ABEK2.***
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	No information available	**Odour**	characteristic
Colour	light yellow	**Odour threshold**	No information available

Property	**Values**	**Remarks • Method**
pH		No information available
Melting point/freezing point		No information available
Boiling point / boiling range	> 150*** °C*** /*** 302*** °F***	***
Flash Point	>*** 95*** °C*** /*** >*** 203*** °F***	***
Evaporation Rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit	No data available	
Vapour pressure	No data available	@ 20° C
	< 1000*** hPa***	@ 50°C***
Vapour Density		No information available
Specific gravity	approx. 0.880 g/cm3***	@ 20°C***
Water solubility	No data available	@ 20° C
Solubility(ies)	Insoluble in water***	***
Partition coefficient		No information available
Autoignition Temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity	<*** 20*** mm2/s***	@ 40°C***
	approx.*** 27*** mm2/s***	@ 25°C***
Dynamic viscosity	No data available	@ 40 °C
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information
***

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

None known based on information supplied.

10.5. Incompatible materials

Incompatible with oxidising agents. Acids. Bases.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information
Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation No data available.
Eye Contact No data available.
Skin contact No data available.
Ingestion No data available.

The following values are calculated based on chapter 3.1 of the GHS document ***
Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.***
ATEmix (inhalation-dust/mist) 18.70*** mg/l*** mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-Ethyl-1-Hexanol***	approx. 2047 mg/kg (Rat)***	> 2600 mg/kg (Rabbit)***	>= 1400 mg/m³ (Rat 4h)***
Kerosine (petroleum)***	> 5000 mg/kg (Rat)***	> 2000 mg/kg (Rabbit)***	> 5.28 mg/L (Rat) 4 h***

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Sensitisation No information available.

Germ Cell Mutagenicity No information available.

Carcinogenicity	No information available.
Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target organ effects	central nervous system, Eyes, Respiratory System, Skin.***
Aspiration Hazard	No information available.

SECTION 12: Ecological information

12.1. Toxicity

7.1535% of the mixture consists of components(s) of unknown hazards to the aquatic environment***

Product Information

Acute (short-term) algae toxicity

EC50	No information available
EC0	No information available
IC50	No information available
IC0	No information available
ErC50	No information available
EbC50	No information available

Acute (short-term) fish toxicity

LC50	No information available
LC0	No information available
EC50	No information available
EC0	No information available

Acute (short-term) aquatic invertebrate toxicity

EC50	No information available
EC0	No information available

Chronic (long-term) algae toxicity

NOEC	No information available
LOEC	No information available

Chronic (long-term) fish toxicity

NOEC No information available

LOEC No information available

Chronic (long-term) aquatic invertebrate toxicity

NOEC No information available

LOEC No information available

Chemical name	Algae/aquatic plants	Fish	Crustacea
Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclics, <2% aromatics***	EL0: approx. 1000 mg/l (Pseudokirchneriella subcapitata 72h)***	LL0: approx. 1000 mg/l (Oncorhynchus mykiss 96h)***	EL0: approx. 1000 mg/l (Daphnia magna 48h)***
2-Ethyl-1-Hexanol***	EC50: approx. 11.5 mg/l (Desmodesmus subspicatus 72h)***	LC50: approx. 17.1 mg/l (Leuciscus idus 96h); LC50: approx. 28.2 mg/l (Pimephales promelas 96h)***	EC50: approx. 39 mg/l (Daphnia pulex 48h)***
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics***	-	45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static***	-

12.2. Persistence and degradability

Product Information

Biodegradation No information available

BOD No information available

ThCO2 No information available

DOC No information available

Chemical name	Biodegradation
Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclics, <2% aromatics*** 64742-47-8	Biodegradation: approx. 69 % (672h)***
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics*** 64742-47-8	Biodegradation: approx. 69 % (672h OECD 301F)***

12.3. Bioaccumulative potential

Product Information

Bioaccumulation (factor) No information available

Chemical name	Partition coefficient
2-Ethyl-1-Hexanol***	2.9***
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics***	6***

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be persistent, bio-accumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB). This preparation contains no substance considered to be very persistent nor very bio-accumulating (vPvB).

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Contaminated packages must be completely emptied and can be re-used following proper cleaning. Clean IBCs or drums at approved facility. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

ADR

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
Labels	-
14.4. Packing group	Not regulated
Description	-
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
Classification code	-
Tunnel restriction code	-
Limited quantity (LQ)	-
ADR Hazard Id (Kemmler Number)	-
Note:	-

RID

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
Labels	-
14.4. Packing group	Not regulated
Description	-
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
Classification code	-
Limited quantity (LQ)	-
Note:	-

IMDG

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
Subsidiary hazard class	-
14.4. Packing group	Not regulated
Description	-
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
EmS-No	-
Limited quantity (LQ)	-

Note:	-
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	No information available

IATA

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
Subsidiary hazard class	-
14.4. Packing group	Not regulated
Description	-
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
ERG Code	-
Limited quantity (LQ)	-
Note:	-

SECTION 15: Regulatory information

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

National Regulations

See section 8 for national exposure control parameters

France

***

Chemical name	French RG number
Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclics, <2% aromatics*** 64742-47-8	RG 84***

Germany

***

Water hazard class (WGK)	Hazardous to water (WGK 2)
Storage class	10

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

All of the components in the product are on the following Inventory lists: TSCA (United States), Europe (EINECS/ELINCS/NLP).***

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out. Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H304 - May be fatal if swallowed and enters airways
H226 - Flammable liquid and vapour
H351 - Suspected of causing cancer if inhaled
H302 - Harmful if swallowed
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects
EUH066 - Repeated exposure may cause skin dryness or cracking***

Revision note Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet