



Approval Number 1796317

Certificate Number :768QM8001

Original Certificate Number :768/95

AG-90 Anti-Galling Lubricant Food Grade

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 453/2010

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

- 1.1 Product identifier**
Product Name AG-90 Anti-Galling Lubricant H1 Food Grade
Trade Name AG-90 Anti-Galling Lubricant H1 Food Grade
Part No. 2048
CAS No. Mixture.
EINECS No. Mixture.
REACH Registration No. None assigned.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified use(s) Formulated to prevent galling/cold welding of stainless steel/titanium/aluminium fastener.
Uses advised against None known.
- 1.3 Details of the supplier of the Safety Data Sheet**
Company Identification Action Can Ltd.,
Dixon Close,
Old Boston Trading Estate,
Haydock, St. Helens,
Merseyside. Wa11 9SF.
Telephone 01942 713667
Fax 01942 716235
E-Mail (competent person) info@actioncan.com
- 1.4 Emergency telephone number**
Emergency Phone No. 01942 713667 (Mon – Fri: 9am to 5pm)

2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
Directive 67/548/EEC & Directive 1999/45/EC Not classified as dangerous for supply/use.
- 2.2 Label elements**
Product Name According to Directive 67/548/EEC & Directive 1999/45/EC
AG-90 Anti-Galling Lubricant H1 Food Grade
Hazard Symbol None.
Risk Phrases None.
Safety Phrases None.
- 2.3 Other hazards**
Product is not classified as flammable, but will burn on contact with flame or exposure to high temperature.
- 2.4 Additional Information**
None.



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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Contains: Highly refined mineral oil (Food safe), Additive: Zonyl P.T.F.E. (Food safe).

3.1 Mixtures

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
No classifiable hazardous ingredient(s).					

3.2 Additional Information

None.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Move person to fresh air. Get medical advice/attention if you feel unwell.

Skin Contact

Remove contaminated clothing. Wash skin with soap and water. If skin irritation occurs, get medical advice/attention. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, get medical advice/attention.

Eye Contact

Ingestion

Rinse mouth. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Ingestion: Nausea, Vomiting, Diarrhoea.

No special requirements. Treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

Product is not classified as flammable, but will burn on contact with flame or exposure to high temperature.

5.1 Extinguishing Media

Suitable Extinguishing Media

Extinguish preferably with waterspray, fog or foam. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media

Water jet spray.

5.2 Special hazards arising from the substance or mixture

Combustion products: A complex mixture of airborne solid and liquid particulates and gases (smoke), Carbon monoxide, Unidentified organic and inorganic compounds.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.



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6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- | | |
|--|---|
| 6.1 Personal precautions, protective equipment and emergency procedures | Caution - spillages may be slippery. Clean up spill immediately. |
| 6.2 Environmental precautions | Do not allow to enter drains, sewers or watercourses. |
| 6.3 Methods and material for containment and cleaning up | Absorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. |
| 6.4 Reference to other sections | See Also Section 8, 13. |



7. SECTION 7: HANDLING AND STORAGE

- | | |
|--|--|
| 7.1 Precautions for safe handling | Ensure adequate ventilation. Avoid prolonged skin contact. Do not breathe vapour. |
| 7.2 Conditions for safe storage, including any incompatibilities
Storage Temperature
Storage Life
Incompatible materials | Keep away from heat and direct sunlight. Keep container tightly closed, in a cool, well ventilated place.
0 - 50°C (32 - 122°F)
Stable under normal conditions.
PVC, Strong oxidising agents. |
| 7.3 Specific end use(s) | Formulated to prevent galling/cold welding of stainless steel/titanium/aluminium fastener. |
| 7.4 Additional Information | The storage of this product may be subject to the Control of Pollution (Oil Storage) (England) Regulations. |

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
None assigned						

- | | |
|--|--|
| 8.1.2 Biological limit value | Not established. |
| 8.1.3 PNECs and DNELs | Not established. |
| 8.2 Exposure controls | |
| 8.2.1 Appropriate engineering controls | Provide adequate ventilation. Local exhaust recommended. |
| 8.2.2 Personal protection equipment
Eye/face protection

Skin protection (Hand protection/Other)
 | Not normally required. Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Not normally required. Wear suitable gloves if prolonged skin contact is likely: Impervious gloves (EN 374).
Type: PVC, Neoprene, Nitrile rubber. |



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Respiratory protection



Not normally required. Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	White.
Odour	Hydrocarbon (Slight)
Odour Threshold	Not determined.
pH	Not applicable.
Melting Point/Freezing Point	Not determined.
Initial boiling point and boiling range	Estimated value(s): >280°C (536°F)
Flash point	200°C (392°F)
Pour Point (°C)	-15°C (5°F)
Evaporation rate	Not available.
Flammability (solid, gas)	Product is not classified as flammable, but will burn on contact with flame or exposure to high temperature.
Upper/lower flammability or explosive limits	1-10Vol-% [Highly refined mineral oil (Food safe)]
Vapour pressure	Estimated value(s): <0.5Pa @ 20°C (68°F)
Vapour density	Estimated value(s): >1 (Air=1)
Relative density	854
Solubility(ies)	Water: Negligible.
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	>320°C (608°F)
Decomposition Temperature	Not determined.
Viscosity	0.806 (VGC)
Kinematic Viscosity	18mm ² /s @ 40°C (104°F)
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Stable under normal conditions.
10.4 Conditions to avoid	Heat and direct sunlight.
10.5 Incompatible materials	PVC, Strong oxidising agents.
10.6 Hazardous Decomposition Product(s)	May decompose in a fire giving off toxic fumes. Combustion products: A complex mixture of airborne solid and liquid particulates and gases (smoke), Carbon monoxide, Unidentified organic and inorganic compounds.



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11. SECTION 11: TOXICOLOGICAL INFORMATION

This assessment is based on information available on similar products.

11.1 Information on toxicological effects

11.1.1 Mixtures

Acute toxicity

Ingestion

Low oral toxicity. LD50 (rat) > 2000mg/kg

Skin Contact

Low acute toxicity. LD50 (rabbit) > 2000mg/kg

Inhalation

Low acute toxicity.

Irritation

Not classified.

Corrosivity

Not classified.

Sensitisation

It is not a skin sensitiser.

Repeated dose toxicity

None anticipated.

Carcinogenicity

No evidence of carcinogenicity.

Highly refined mineral oil (Food safe):

Studies in animals have shown that repeated exposures do not produce carcinogenic effects. IARC: Not classified.

Mutagenicity

There is no evidence of mutagenic potential.

Toxicity for reproduction

None anticipated.

11.2 Other information

None.

12. SECTION 12: ECOLOGICAL INFORMATION

This assessment is based on information available on similar products.

12.1 Toxicity

Low toxicity to aquatic organisms.

LL/EL/IL50 >100mg/l

12.2 Persistence and degradability

Evidence for inherent biodegradability.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Floats on water. The product may adsorb onto soils and sediments.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

None.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recover or recycle if possible. Consult an accredited waste disposal contractor or the local authority for advice. Do not allow into any sewer on the ground, or into any body of water.

13.2 Additional Information

Dispose of contents in accordance with local, state or national legislation.

Waste code

13 08 99

14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1 UN number

UN 1950

14.2 UN proper shipping name

AEROSOLS.

14.3 Transport hazard class(es)

2.0

14.4 Packing Group

None.

14.5 Environmental hazards

Not classified as a Marine Pollutant.



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|---------------|--|------------------------------------|
| 14.6 | Special precautions for user | None. |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| 14.8 | Additional Information | |
| 14.8.1 | Limited Quantity (LQ) | Limited Quantity provisions apply. |

15. SECTION 15: REGULATORY INFORMATION

- | | | |
|---------------|---|---|
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| 15.1.1 | EU regulations | |
| | Authorisations and/or restrictions on use | None. Contains no hazardous ingredients. |
| | Other EU regulations | <ul style="list-style-type: none">• Health and Safety at Work Act 1974• Control of Pollution Act 1974• Consumer Protection Act 1987• Environmental Protection Act 1990• Environmental Act 1995• Factories Act 1961• Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations• COSHH 1994 - Control of Substances Hazardous to Health• CHIP - Chemicals (Hazard Information and Packaging) Regulations• Road Traffic Regulations - Carriage of Dangerous Substances in Packages; Carriage of Dangerous Substances in Road Tankers in Tank Containers; Training of drivers of Vehicles Carrying Dangerous Goods• Merchant Shipping Regulations – Dangerous Goods and Marine Pollutants• RIDDOR - Reporting of Injuries, Diseases and Dangerous Occurrences Regulations• Health and Safety (First Aid) Regulations 1981• Personal Protective Equipment (EC Directive) Regulations 1992• Personal Protective Equipment at Work Regulations 1992 |
| 15.1.2 | National regulations | None known. |
| 15.2 | Chemical Safety Assessment | Not available. |

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic



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vPvB very Persistent and very Bioaccumulative
IARC International Agency for Research on Cancer

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Annex to the extended Safety Data Sheet (eSDS)

No information available.