Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier
3M Accessory Products, Air Tool Lubricant

Product Identification Numbers
60-4402-4213-3 60-4402-4214-1 60-4402-4215-8 60-4402-4216-6

1.2. Recommended use and restrictions on use

Recommended use
Tool Lubricant

1.3. Supplier's details
Address: 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone: 080-39143000, contact Product EHS team
E Mail: productehs.in@mmm.com
Website: http://solutions.3mindia.co.in

1.4. Emergency telephone number
080-39143000 (Contact hours: 8:00 AM to 5:00 PM)

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture
Skin Corrosion/Irritation: Category 3.
Specific Target Organ Toxicity (single exposure): Category 3.
Chronic Aquatic Toxicity: Category 4.

2.2. Label elements
Signal Word
WARNING!

Symbols

Exclamation mark |

Pictograms

HAZARD STATEMENTS:

H316	Causes mild skin irritation.
H336	May cause drowsiness or dizziness.
H413	May cause long lasting harmful effects to aquatic life.

PRECAUTIONARY STATEMENTS

Prevention:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Storage:

P405	Store locked up.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
C10-13-iso-Alkanes	64742-54-7	50 - 65
Alkanes, C18-28, chloro	85535-86-0	10 - 20
Chlorinated Paraffin Wax	63449-39-8	10 - 20
Mineral Oil	64742-58-1	5 - 15
Lubricant	64742-53-6	1 - 10
Sulphide Additive	68425-15-0	1 - 10
C10-13-iso-Alkanes	64742-65-0	0.5 - 5

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If swallowed
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1 Information on toxicological effects

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable Extinguishing media
In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Special protective actions for fire-fighters
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
For industrial or professional use only. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or

on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
MINERAL OILS, HIGHLY-REFINED OILS	64742-54-7	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin
MINERAL OILS, HIGHLY-REFINED OILS	64742-58-1	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
None required.

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended: Polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	Mild pretroleum odor, clear light amber liquid
Odour threshold	*No data available.*
pH	*No data available.*
Melting point/Freezing point: NA	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	230 ºC
Flash point	138 ºC [*Test Method:*Pensky-Martens Closed Cup]
Evaporation rate	*No data available.*
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	*No data available.*
Vapour density	*No data available.*
Density	*No data available.*
Relative density	0.88 [@ 20 ºC] [*Ref Std:*WATER=1]
Water solubility	Nil
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Viscosity	6.1 - 35.4 mm²/sec [@ 40 ºC] [*Test Method:*Tested per ASTM protocol] [*Details:*10 wt. D-445]
Volatile organic compounds (VOC)	0.18 lb/gal
Percent volatile	2.2 %
VOC less H2O & exempt solvents	21.98 g/l

SECTION 10: Stability and reactivity

10.1 Reactivity
This material is considered to be non reactive under normal use conditions

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Sparks and/or flames.

10.5 Incompatible materials
Strong oxidising agents.
Reducing agents.
Strong acids.

10.6 Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation
May cause additional health effects (see below).

Skin contact
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Eye contact
Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:
Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
C10-13-iso-Alkanes	Dermal	Rabbit	LD50 > 5,000 mg/kg
C10-13-iso-Alkanes	Ingestion	Rat	LD50 > 5,000 mg/kg
Chlorinated Paraffin Wax	Dermal	Rabbit	LD50 > 13,000 mg/kg
Chlorinated Paraffin Wax	Ingestion	Rat	LD50 > 11,700 mg/kg
Lubricant	Dermal	Rabbit	LD50 > 2,000 mg/kg
Lubricant	Inhalation-Dust/Mist (4 hours)	Rat	LC50 2.2 mg/l
Lubricant	Ingestion	Rat	LD50 > 5,000 mg/kg
C10-13-iso-Alkanes	Dermal	Rabbit	LD50 > 5,000 mg/kg
C10-13-iso-Alkanes	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 4 mg/l
C10-13-iso-Alkanes	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value

C10-13-iso-Alkanes	Rabbit	Minimal irritation
Chlorinated Paraffin Wax	Rabbit	No significant irritation
Lubricant	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
C10-13-iso-Alkanes	Rabbit	Mild irritant
Chlorinated Paraffin Wax	Rabbit	No significant irritation
Lubricant	Rabbit	Mild irritant

Skin Sensitisation

Name	Species	Value
C10-13-iso-Alkanes	Guinea pig	Not classified
Lubricant	Guinea pig	Not classified

Respiratory Sensitisation

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
C10-13-iso-Alkanes	In Vitro	Some positive data exist, but the data are not sufficient for classification
Lubricant	In Vitro	Some positive data exist, but the data are not sufficient for classification
Lubricant	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
C10-13-iso-Alkanes	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Lubricant	Dermal	Mouse	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Lubricant	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Lubricant	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Lubricant	Dermal	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	during gestation
Lubricant	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Lubricant	Dermal	Not classified for male reproduction	Rabbit	NOAEL 1,000 mg/kg/day	28 days

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
C10-13-iso-Alkanes	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
C10-13-iso-Alkanes	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
C10-13-iso-Alkanes	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.21 mg/l	28 days

Aspiration Hazard

Name	Value
Lubricant	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:
GHS Chronic 4: May cause long lasting harmful effects to aquatic organisms.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
C10-13-iso-Alkanes	64742-54-7	Green algae	Estimated	72 hours	Effect Level 50%	>100 mg/l
C10-13-iso-Alkanes	64742-54-7	Water flea	Estimated	48 hours	Effect Level 50%	>100 mg/l
C10-13-iso-Alkanes	64742-54-7	Fathead minnow	Experimental	96 hours	Lethal Level 50%	>100 mg/l
C10-13-iso-Alkanes	64742-54-7	Green algae	Estimated	72 hours	No obs Effect Level	>100 mg/l
C10-13-iso-Alkanes	64742-54-7	Water flea	Estimated	21 days	No obs Effect Level	>100 mg/l
Alkanes, C18-28, chloro	85535-86-0	Rainbow trout	Estimated	96 hours	LC50	>300 mg/l
Alkanes, C18-28, chloro	85535-86-0	Water flea	Estimated	24 hours	EC50	102 mg/l
Chlorinated	63449-39-8	Rainbow trout	Experimental	96 hours	LC50	>300 mg/l

Paraffin Wax						
Chlorinated Paraffin Wax	63449-39-8	Water flea	Experimental	24 hours	EC50	102 mg/l
Mineral Oil	64742-58-1		Data not available or insufficient for classification			
Lubricant	64742-53-6	Green algae	Estimated	96 hours	EC50	>100 mg/l
Lubricant	64742-53-6	Water flea	Experimental	48 hours	EC50	>100 mg/l
Sulphide Additive	68425-15-0	Zebra Fish	Endpoint not reached	96 hours	Lethal Level 50%	>100 mg/l
Sulphide Additive	68425-15-0	Green algae	Experimental	72 hours	EC50	>100 mg/l
Sulphide Additive	68425-15-0	Water flea	Experimental	48 hours	EC50	>100 mg/l
Sulphide Additive	68425-15-0	Green algae	Experimental	72 hours	NOEC	100 mg/l
C10-13-iso-Alkanes	64742-65-0	Green algae	Estimated	96 hours	EC50	>100 mg/l
C10-13-iso-Alkanes	64742-65-0	Water flea	Estimated	48 hours	EC50	>100 mg/l
C10-13-iso-Alkanes	64742-65-0	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
C10-13-iso-Alkanes	64742-65-0	Water flea	Experimental	21 days	NOEC	100 mg/l

12.2. Persistence and degradability

Material	**CAS Nbr**	**Test type**	**Duration**	**Study Type**	**Test result**	**Protocol**
C10-13-iso-Alkanes	64742-54-7	Experimental Biodegradation	28 days	BOD	31 % weight	OECD 301F - Manometric respirometry
Alkanes, C18-28, chloro	85535-86-0	Data not available-insufficient			N/A	
Chlorinated Paraffin Wax	63449-39-8	Data not available-insufficient			N/A	
Mineral Oil	64742-58-1	Experimental Biodegradation	28 days		9.1 % weight	Other methods
Lubricant	64742-53-6	Experimental Biodegradation	28 days	BOD	42 % weight	OECD 301F - Manometric respirometry
Sulphide Additive	68425-15-0	Experimental Bioconcentration		Log Kow	>6.2	Other methods
Sulphide Additive	68425-15-0	Experimental Biodegradation	28 days	BOD	0 % BOD/ThBOD	OECD 301F - Manometric respirometry
C10-13-iso-Alkanes	64742-65-0	Experimental Biodegradation	28 days	CO2 evolution	23 % weight	Other methods

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
C10-13-iso-Alkanes	64742-54-7	Estimated Bioconcentration		Bioaccumulation factor	7.5	Estimated: Bioconcentration factor
Alkanes, C18-28, chloro	85535-86-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Chlorinated Paraffin Wax	63449-39-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Mineral Oil	64742-58-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Lubricant	64742-53-6	Estimated Bioconcentration		Log Kow	5.07	Other methods
C10-13-iso-Alkanes	64742-65-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other Adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

Not hazardous for transportation.

Air Transport (IATA)Regulations
UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: Not applicable

Marine Transport (IMDG)

UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

SECTION 15: Regulatory information

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

Global inventory status
Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Applicable Environmental, Health and Safety Regulations
Not applicable

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules
None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:
Product is classified as non-hazardous

SECTION 16: Other information

NFPA Hazard Classification
Health: 1 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:
Section 14: Packing group (IMO) information was added.
Label: GHS Classification information was modified.
Label: GHS Precautionary - Prevention information was modified.
Label: GHS Precautionary - Response information was deleted.
Section 2: Ingredient table information was modified.
Section 4: First aid for skin contact information information was modified.
Section 5: Fire - Advice for fire fighters information information was modified.
Section 6: Accidental release environmental information information was modified.
Section 7: Precautions safe handling information information was modified.
Section 8: Eye protection information information was added.
Section 8: Eye/face protection information information was deleted.
Section 8: Personal Protection - Eye information information was deleted.
Section 8: Personal Protection - Skin/body information information was deleted.
Section 8: Skin protection - protective clothing information information was deleted.
Section 9: Viscosity information information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.

Section 12:Bioccumulative potential information information was modified.
Section 13: 13.1. Waste disposal note information was modified.
Section 14: Environmental hazards information was added.
Section 14: IMO Subsidiary Risk information was added.
Section 14: IMO transport hazard classes information was added.
Section 14: Proper Shipping Name (IMO) information was added.
Section 14: UN Number (IMO) information was added.
Section 15: Regulations - Inventories information was modified.
Section 16: NFPA hazard classification for health information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M India SDSs are available at http://solutions.3mindia.co.in