USA SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **LORD ACCELERATOR 4**
Product Use/Class: **Acrylic Adhesive, Part 2 of 2**

LORD Corporation
111 LORD Drive
Cary, NC 27511-7923 USA

Telephone: 814 868-3180
Non-Transportation Emergency: 814 763-2345
Chemtrec 24 Hr Transportation Emergency No.
800 424-9300 (Outside Continental U.S. 703 527-3887)

EFFECTIVE DATE: 08/09/2017

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Serious eye damage/eye irritation Category 2B
Skin sensitization Category 1
Respiratory sensitization Category 1
Germ cell mutagenicity Category 2
Carcinogenicity Category 1A
Reproductive toxicity Category 1A
Specific target organ systemic toxicity (single exposure) Category 1 Central nervous system, Respiratory system
Specific target organ systemic toxicity (single exposure) Category 3
Specific target organ systemic toxicity (repeated exposure) Category 1 Body, Central nervous system, Liver, Respiratory system
Aspiration hazard Category 1
Hazardous to the aquatic environment - acute hazard Category 2

GHS LABEL ELEMENTS:
Symbol(s)

Signal Word

DANGER

Hazard Statements

Causes eye irritation.
May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Suspected of causing genetic defects.
May cause cancer.
May damage fertility or the unborn child.
Causes damage to organs.(Central nervous system, Respiratory system)
May cause respiratory irritation.
May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure.(Body, Central nervous system, Liver, Respiratory system)
May be fatal if swallowed and enters airways.
Toxic to aquatic life.

Precautionary Statements

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves.
Use personal protective equipment as required.
In case of inadequate ventilation wear respiratory protection.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.

Response

Call a POISON CENTER or doctor/physician if you feel unwell.
IF exposed: Call a POISON CENTER or doctor/physician.
Specific treatment (see supplemental first aid instructions on this label).
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.
Wash contaminated clothing before reuse.

Storage

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal:

Dispose of contents/container in accordance with waste/disposal laws and regulations of your country or particular locality.

Other Hazards:

This product contains component(s) which have the following warnings; however based on the GHS classification criteria of your country or locale, the product mixture may be outside the respective category(s).

Acute: Vapor harmful; may affect the brain or nervous system causing dizziness, headache or nausea. Possible irritation of the respiratory system can occur causing a variety of symptoms such as dryness of the throat, tightness of the chest, and shortness of breath. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma. Dermal absorption possible. May cause skin irritation. Contains methylene chloride. Excessive exposure may cause carboxyhemoglobinemia, a condition which impairs the blood's ability to transport oxygen. Very high levels of exposure to methylene chloride may cause cardiac arrhythmias. May be harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

Chronic: May cause kidney damage. May affect the blood and blood-forming organs. Prolonged or repeated contact may result in dermatitis. Methylene chloride has been classified for carcinogenicity by IARC and by NTP as sufficient evidence for carcinogenicity in experimental animals; insufficient evidence in humans. Use of this product should comply with the OSHA Methylene Chloride Standard,29CFR1910.1052. Trichloroethylene has been classified by IARC as a human carcinogen (Group 1) and by NTP as a reasonably anticipated human carcinogen. IARC has designated Methyl isobutyl ketone to be in Group 2B - possibly carcinogenic to humans.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Range
Methylene chloride	75-09-2	65 - 70 %
Trichloroethylene	79-01-6	10 - 15 %
Methyl isobutyl ketone	108-10-1	5 - 10 %
Benzoyl peroxide	94-36-0	5 - 10 %

Methyl methacrylate	80-62-6	1 - 5 %

Any "PROPRIETARY" component(s) in the above table is considered trade secret, thus the specific chemical and its exact concentration is being withheld.

4. FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

FIRST AID - SKIN CONTACT: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

FIRST AID - INHALATION: Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, do not induce vomiting. Call a physician or poison control center immediately for further instructions. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog
UNSUITABLE EXTINGUISHING MEDIA: Not determined for this product.

SPECIFIC HAZARDS POSSIBLY ARISING FROM THE CHEMICAL: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. WARNING: This product contains benzoyl peroxide. If the solvents are allowed to evaporate, the dried residue may ignite with heat, friction, shock, or contact with combustible material. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). If water is used, fog nozzles are preferable.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Avoid contact. Avoid breathing vapors. Use self-contained breathing equipment.

ENVIRONMENTAL PRECAUTIONS: Do not contaminate bodies of water, waterways, or ditches, with chemical or used container.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Keep non-essential personnel a safe distance away from the spill area. Notify appropriate authorities if necessary. Avoid contact. Before attempting cleanup, refer to hazard caution information in other sections of the SDS form. Contain and remove with inert absorbent material.

7. HANDLING AND STORAGE

HANDLING: Keep closure tight and container upright to prevent leakage. Do not smoke where this product is used or stored. Avoid using pressurizable equipment which has aluminum or zinc parts; this product contains chlorinated solvents. Use with adequate ventilation. Avoid breathing of vapor or spray mists. Avoid skin and eye contact. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Warning: This product contains benzoyl peroxide. If the solvents are allowed to evaporate, the dried residue may ignite with heat, friction, shock, or contact with combustible material.

STORAGE: Do not store or use near heat, sparks, or open flame. Store only in well-ventilated areas. Do not puncture, drag, or slide container. Keep container closed when not in use.

INCOMPATIBILITY: Aluminum, zinc, caustics, halogens.; Strong acids, bases, and strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT EXPOSURE LIMIT

Chemical Name	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	Skin
Methylene chloride	50 ppm	N.E.	25 ppm	N.E.	N.A.
Trichloroethylene	10 ppm	25 ppm	100 ppm	200 ppm	N.A.
Methyl isobutyl ketone	50 ppm	75 ppm	410 mg/m3 100 ppm	N.E.	N.A.
Benzoyl peroxide	5 mg/m3	N.E.	5 mg/m3	N.E.	N.A.
Methyl methacrylate	50 ppm	100 ppm	410 mg/m3 100 ppm	N.E.	N.A.

N.A. - Not Applicable, N.E. - Not Established, S - Skin Designation

Engineering controls: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Caution: Solvent vapors are heavier than air and collect in lower levels of the work area.

PERSONAL PROTECTION MEASURES/EQUIPMENT:

RESPIRATORY PROTECTION: An air-supplied respirator is required where occupational limits are exceeded. Contains methylene chloride, which has poor odor warning properties. For respirator use observe OSHA regulations (29CFR 1910.134) or use in accordance with applicable laws and regulations of your country or particular locality.

SKIN PROTECTION: Use neoprene, nitrile, or rubber gloves to prevent skin contact. If contact with the product is prolonged or repeated, Silver Shield or Butyl rubber gloves are recommended.

EYE PROTECTION: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical values, not to be used for specification purposes.

ODOR:	Solvent	**VAPOR PRESSURE:**	N.D.
APPEARANCE:	Opaque	**VAPOR DENSITY:**	Heavier than Air
PHYSICAL STATE:	Liquid	**LOWER EXPLOSIVE LIMIT:**	1.4 %(V)
FLASH POINT:	≥ 201 °F, 93 °C Setaflash Closed Cup	**UPPER EXPLOSIVE LIMIT:**	44.8 %(V)
BOILING RANGE:	40 - 117 °C	**EVAPORATION RATE:**	Faster than n-butyl-acetate.
AUTOIGNITION TEMPERATURE:	N.D.	**DENSITY:**	1.24 g/cm3 - 10.29 lb/gal
DECOMPOSITION TEMPERATURE:	N.D.	**VISCOSITY, DYNAMIC:**	≥4 mPa.s @ 25 °C
ODOR THRESHOLD:	N.D.	**VISCOSITY, KINEMATIC:**	≥3 mm2/s @ 25 °C
SOLUBILITY IN H2O:	Insoluble	**VOLATILE BY WEIGHT:**	89.07 %
pH:	N.A.	**VOLATILE BY VOLUME:**	87.87 %
FREEZE POINT:	N.D.	**VOC CALCULATED:**	6.29 lb/gal, 755 g/l
COEFFICIENT OF WATER/OIL DISTRIBUTION:	N.D.		

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

STABILITY: Product is stable under normal storage conditions.

CONDITIONS TO AVOID: Aluminum or galvanized parts in a closed system.; Dried material is flammable, sensitive to shock and heat.; Direct sunlight, shock, and temperatures in excess of 90F.

INCOMPATIBILITY: Aluminum, zinc, caustics, halogens.; Strong acids, bases, and strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, chlorine, hydrogen chloride, Oxides of nitrogen, Phosgene

11. TOXICOLOGICAL INFORMATION

EXPOSURE PATH: Refer to section 2 of this SDS.

SYMPTOMS: Refer to section 2 of this SDS.

TOXICITY MEASURES:

Chemical Name	LD50/LC50
Methylene chloride	Oral LD50: Rat 1,600 mg/kg Inhalation LC50: Rat 76,000 mg/m3 /4 h Inhalation LC50: Rat 53 mg/l /6 h
Trichloroethylene	Oral LD50: Rat 4,920 mg/kg Dermal LD50: Rabbit 29,000 mg/kg Inhalation LC50: Rat 26 mg/l /4 h
Methyl isobutyl ketone	Oral LD50: Rat 2,080 mg/kg Dermal LD50: Rabbit 3,000 mg/kg Inhalation LC50: Rat 8.2 mg/l /4 h
Benzoyl peroxide	Oral LD50: Rat 7,710 mg/kg
Methyl methacrylate	Oral LD50: Rat 8,420 - 10,000 mg/kg Dermal LD50: Rabbit > 5 g/kg Dermal LD50: Rabbit 5,000 - 7,500 mg/kg GHS LC50 (vapour): Acute toxicity point estimate 11 mg/l Inhalation LC50: Rat 7093 ppm/4 h

Germ cell mutagenicity: Category 2 - Suspected of causing genetic defects.
Components contributing to classification: Trichloroethylene.

Carcinogenicity: Category 1A - May cause cancer.
Components contributing to classification: Methylene chloride. Trichloroethylene. Methyl isobutyl ketone.

Reproductive toxicity: Category 1A - May damage fertility or the unborn child.
Components contributing to classification: Trichloroethylene. Methyl methacrylate.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Chemical Name	Ecotoxicity
Methylene chloride	Fish: Pimephales promelas 140.8 - 277.8 mg/l96 h flow-through Pimephales promelas 262 - 855 mg/l96 h Static Lepomis macrochirus 193 mg/l96 h Static Lepomis macrochirus 193 mg/l96 h flow-through Invertebrates: Daphnia magna 1,532 - 1,847 mg/l48 h Static Daphnia magna 190 mg/l48 h Plants: Pseudokirchneriella subcapitata > 500 mg/l96 h Pseudokirchneriella subcapitata > 500 mg/l72 h
Trichloroethylene	Fish: Pimephales promelas 31.4 - 71.8 mg/l96 h flow-through Lepomis macrochirus 39 - 54 mg/l96 h Static Invertebrates: Daphnia magna 2.2 mg/l48 h Plants: Desmodesmus subspicatus 450 mg/l96 h

	Pseudokirchneriella subcapitata 175 mg/l96 h
Methyl isobutyl ketone	Fish: Pimephales promelas 496 - 514 mg/l96 h flow-through Invertebrates: Daphnia magna 170 mg/l48 h Plants: Pseudokirchneriella subcapitata 400 mg/l96 h
Benzoyl peroxide	N.D.
Methyl methacrylate	Fish: Pimephales promelas 243 - 275 mg/l96 h flow-through Pimephales promelas 125.5 - 190.7 mg/l96 h Static Lepomis macrochirus 170 - 206 mg/l96 h flow-through Lepomis macrochirus 153.9 - 341.8 mg/l96 h Static Oncorhynchus mykiss > 79 mg/l96 h flow-through Oncorhynchus mykiss > 79 mg/l96 h Static Poecilia reticulata 326.4 - 426.9 mg/l96 h Static Invertebrates: Daphnia magna 69 mg/l48 h Plants: Pseudokirchneriella subcapitata 170 mg/l96 h

PERSISTENCE AND DEGRADABILITY: Not determined for this product.

BIOACCUMULATIVE: Not determined for this product.

MOBILITY IN SOIL: Not determined for this product.

OTHER ADVERSE EFFECTS: Not determined for this product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), state and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

14. TRANSPORT INFORMATION

The listed transportation classification applies to non-bulk shipments. It does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors. For the most accurate shipping information, refer to your transportation/compliance department.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS:

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.:

Chemical Name	CAS Number	Weight % Less Than
Methylene chloride	75-09-2	70.0 %
Trichloroethylene	79-01-6	15.0 %
Methyl isobutyl ketone	108-10-1	10.0 %
Benzoyl peroxide	94-36-0	10.0 %
Methyl methacrylate	80-62-6	5.0 %

TOXIC SUBSTANCES CONTROL ACT:

INVENTORY STATUS

The chemical substances in this product are on the TSCA Section 8 Inventory.

EXPORT NOTIFICATION

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS Number
Trichloroethylene	79-01-6

16. OTHER INFORMATION

Under HazCom 2012 it is optional to continue using the HMIS rating system. It is important to ensure employees have been trained to recognize the different numeric ratings associated with the HazCom 2012 and HMIS schemes.

HMIS RATINGS - HEALTH: 2* FLAMMABILITY: 1 PHYSICAL HAZARD: 1
* - Indicates a chronic hazard; see Section 2

Revision: Section 2

Effective Date: 08/09/2017

DISCLAIMER

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.