

1. PRODUCT AND COMPANY IDENTIFICATION

NAME: OIL - BASED STAINLESS STEEL CLEANER

USE: STAINLESS STEEL CLEANER (PETROLEUM BASED)

LABEL BRAND: ARRAY

MSDS # 4470350 CODE # 4470350

US CHEMICAL, 316 HART STREET, WATERTOWN WI 53094 USA

MEDICAL EMERGENCY #: 1-866-923-4913 USA

SPILL EMERGENCY #: 1-800-424-9300 USA

PRODUCT INFORMATION #: 1-800-558-9566 (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)

INTERNET ADDRESS: WWW.USCHEMICAL.COM

REVIEWED 1-19-10 REVISED 1-19-10 SECTION REVISED: 1

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER! FLAMMABLE. CONTENTS UNDER PRESSURE. AEROSOL. MAY BE IRRITATING TO EYES AND SKIN. CONTENTS ARE UNDER PRESSURE. TEMPERATURE ABOVE 120°F OR 49°C MAY CAUSE CAN TO BURST. IF FIRE OCCURS, USE EQUIPMENT TO SHIELD OR PROTECT PERSONNEL FROM VENTING OR RUPTURING AEROSOL CANS.

PRINCIPLE ROUTES OF EXPOSURE: SKIN, EYES, INHALATION

POTENTIAL ACUTE HEALTH EFFECTS

EYES: MAY BE SEVERELY IRRITATING TO EYES.

SKIN: MAY BE MILDLY IRRITATING TO SKIN.

INHALATION: INHALATION OF MISTS OR VAPORS MAY CAUSE IRRITATION TO NOSE, THROAT, AND MUCOUS MEMBRANES, HEADACHE, DIZZINESS, DROWSINESS AND PULMONARY IRRITATION. SEVERITY DEPENDS ON DEGREE OF EXPOSURE.

INGESTION: MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA. HARMFUL OR FATAL IF SWALLOWED. POSSIBLE ASPIRATION HAZARD.

MEDICAL CONDITIONS AGGRAVATED: PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	% BY WT	LC50/LD50
ISOPARAFFINIC HYDROCARBON	64742-47-8	10.0 – 30.0	N.AV.
MINERAL SPIRITS	64742-48-9	10.0 – 30.0	N.AV.
ACETONE	67-64-1	10.0 – 15.0	N.AV.
METHYL ACETATE	79-20-9	1.0 – 10.0	N.AV.
LIQUEFIED PETROLEUM GAS	68476-86-8	10.0 – 30.0	N.AV.

STATE RIGHT TO KNOW: THIS PRODUCT CONTAINS:

WHITE MINERAL OIL/8042-47-5, SYNTHETIC ISOPARAFFINIC HYDROCARBON/64742-47-8, MINERAL SPIRITS/64742-48-9, 64741-65-7, ACETONE/67-64-1, METHYL ACETATE/79-20-9, LIQUEFIED PETROLEUM GAS/68476-86-8

4. FIRST AID MEASURES

Page 2 of 4

EYES: FLOOD WITH LUKEWARM (NOT HOT) WATER POURED FROM A LARGE GLASS 2 OR 3 INCHES FROM EYES. REMOVE CONTACTS. HAVE PATIENT BLINK AS MUCH AS POSSIBLE WHILE FLOODING THE EYES. CONTINUE FOR AT LEAST 15 MINUTES.

SKIN: REMOVE CONTAMINATED CLOTHES, THEN FLOOD WITH WATER.

INHALATION: MOVE VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF PATIENT IS NOT BREATHING.

INGESTION: DO NOT INDUCE VOMITING. IF PATIENT IS CONSCIOUS AND CAN SWALLOW, ADMINISTER MILK OR WATER. LEAN VICTIM FORWARD TO REDUCE RATE OF ASPIRATION. IF SWALLOWED AND VOMITING OCCURS, IMMEDIATELY CONTACT PHYSICIAN OR POISON CENTER. VOMITING MAY CAUSE ASPIRATION PNEUMONIA.

ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-866-923-4913 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.

NOTE TO PHYSICIAN: CALL 1-866-923-4913 FOR ASSISTANCE WITH THE MANAGEMENT OF EXPOSURES.

5. FIRE-FIGHTING MEASURES

FLAMMABILITY: FLAMMABLE AEROSOL.

FLAMMABILITY LIMITS (PROPELLANT): SEE SECTION 9.

FLASH POINT: PROPELLANT = BELOW 0°F, CONCENTRATE= ABOVE -4°F

PRODUCTS OF COMBUSTION: SEE SECTION 10.

SUITABLE EXTINGUISHING MEDIA: TO FIGHT FIRE, USE CARBON DIOXIDE, DRY CHEMICAL OR ALCOHOL FOAM.

SPECIFIC HAZARDS: CONTENTS ARE UNDER PRESSURE IN AEROSOL CAN. TEMPERATURE ABOVE 130°F OR 54°C MAY CAUSE AEROSOL CAN TO BURST OR RUPTURE.

SPECIFIC METHODS: COOL CONTAINERS WITH WATER SPRAY TO PREVENT VAPOR PRESSURE BUILD UP. USE EQUIPMENT OR SHIELDING, AS REQUIRED, TO PROTECT PERSONNEL FROM BURSTING, RUPTURING OR VENTING CONTAINERS.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: SEE SECTION 8. PUT ON APPROPRIATE PPE.

SPILL RESPONSE: IF CONTAINERS BEGIN TO LEAK THROUGH PUNCTURE OR DEFECTIVE PACKAGING, ALLOW IT TO DISCHARGE COMPLETELY IN A WELL VENTILATED AREA. WEAR PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS. REMOVE SOURCES OF IGNITION. AVOID HEAT, SPARK OR FLAME. KEEP COMBUSTIBLES AWAY! AVOID DIRECT DISCHARGE TO SEWER AND SURFACE WATERS. PUMP TO CONTAINER OR SOAK UP WITH NON-COMBUSTIBLE INERT ABSORBENT MATERIALS. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES. BE CAREFUL AS SPILLS ARE SLIPPERY.

7. HANDLING AND STORAGE

HANDLING: FOLLOW ALL LABEL DIRECTIONS. AVOID HEAT, SPARKS OR OPEN FLAME. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES. AVOID INHALATION, INGESTION AND CONTACT WITH SKIN AND EYES. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. HANDLE CAREFULLY TO AVOID PUNCTURE.

STORAGE: ROTATE STOCK REGULARLY. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER. KEEP AWAY FROM SPARKS, OR OPEN FLAME. KEEP FROM FREEZING. STORE IN A COOL DRY AREA OUT OF DIRECT SUNLIGHT. KEEP OUT OF CHILDREN'S REACH. KEEP AWAY FROM FOOD AND DRINKING WATER. STORE AS LEVEL 3 AEROSOL (NFPA 30B).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Page 3 of 4

EXPOSURE LIMITS: LIQUEFIED PETROLEUM GAS – PROPANE=1000 PPM TWA (ACGIH/OSHA)
 MINERAL SPIRITS = 177 PPM TWA SKIN (ExxonMobile)
 ISOPARAFFINIC HYDROCARBON = 152 PPM TWA (ACGIH)
 ACETONE = 500 PPM TWA, 750 PPM STEL (ACGIH), 1000 PPM TWA (OSHA)
 METHYL ACETATE = 200 PPM TWA, 250 PPM STEL (ACGIH/OSHA)

ENGINEERING CONTROLS: NOT ORDINARILY NEEDED. SPRAY AWAY FROM YOURSELF TO AVOID INHALATION OF MISTS. IF EXPOSURE EXCEEDS LIMITS FOR PEL/TLV, USE A NIOSH APPROVED RESPIRATOR.

PERSONAL PROTECTION

EYES: SAFETY GLASSES WITH SIDE SHIELDS. HAVE AN EYE WASH STATION AVAILABLE.

HANDS: CHEMICAL RESISTANT GLOVES: RUBBER OR NEOPRENE.

RESPIRATORY: NONE REQUIRED WITH NORMAL USE. AVOID INHALATION OF MIST.

FEET: N.AP.

BODY: N.AP.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: COLORLESS

ODOR: SOLVENT/LEMON

pH CONCENTRATE: N.AV.

pH @ 2500 PPM SOLUTION: N.AP.

pH @ USE DILUTION: N.AP.

PHYSICAL STATE: LIQUID IN AEROSOL CAN

SPECIFIC GRAVITY: LESS THAN 1.0

VISCOSITY: NON-VISCOUS

BOILING POINT: N.AP.

MELTING POINT: N.AP.

FLASH POINT: SEE SECTION 5.

UEL: 9.5% (FOR PROPELLANT)

LEL: 2.2% (FOR PROPELLANT)

EVAPORATION RATE: N.AV.

ODOR THRESHOLD: N.AV.

VAPOR PRESSURE: 100@130°F PSIG

VAPOR DENSITY: N.AV.

COEFF. OIL/WATER: N.AP.

WATER SOLUBILITY: NEGLIGIBLE

OTHER: N.AP.

10. STABILITY AND REACTIVITY

STABLE: YES

CONDITIONS TO AVOID: DO NOT STORE ABOVE 49°C OR 120°F. KEEP AWAY FROM HEAT, DIRECT SUNLIGHT, OPEN FLAMES OR SPARKS. AVOID SPRAYING ON HOT SURFACES. DROPPING MAY CAUSE CONTAINER TO BURST.

MATERIALS TO AVOID: AVOID CONTACT WITH OTHER CLEANING PRODUCTS.

DECOMPOSITION PRODUCTS: FIRE OR MIXING WITH INCOMPATIBLE MATERIALS MAY PRODUCE OXIDES OF CARBON AND OTHER TOXIC OR IRRITATING FUMES.

POSSIBILITY OF HAZARDOUS REACTIONS: N.AP.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: SEE SECTION 2.

CHRONIC EFFECTS: NONE KNOWN. NO REPORTABLE CARCINOGENS, MUTAGENS, SENSITIZERS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.

LC50/LD50: N.AV.

TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM, NERVOUS SYSTEM

OTHER TOXIC EFFECTS: NONE KNOWN.

12. ECOLOGICAL INFORMATION

Page 4 of 4

NOT AVAILABLE.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS. CONSULT REGULATORY AGENCIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. DO NOT THROW IN FIRE. DO NOT PUNCTURE OR INCINERATE CONTAINERS. WHEN CONTENTS ARE DEPLETED CONTINUE TO DEPRESS BUTTON UNTIL ALL GAS IS EXPELLED. AEROSOL CYLINDER IS NOT REFILLABLE. GIVE TO A DISPOSAL SERVICE EQUIPPED TO SAFELY DISPOSE OF PRESSURIZED CONTAINERS. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

14. TRANSPORT INFORMATION

DOT/TDG: CONSUMER COMMODITY, ORM-D
DOT RQ: N.AP.
IMDG: AEROSOLS, 2.1, UN1950, LIMITED QUANTITY

15. REGULATORY INFORMATION

EPA CERCLA RQ: N.AP.
EPA REGISTERED: NO
EPA VOC: 29.70%
EPA VOC RULE: PRODUCT COMPLIES WITH THE EPA VOC EMISSIONS STANDARD.
OSHA HAZARDOUS: YES
PHOSPHORUS CONTENT: 0.00%
PROPOSITION 65: N.AP.
SARA 311/312 HAZARDS: ACUTE, FIRE, PRESSURE, CHRONIC
SARA 313 CHEMICALS: N.AP.
STATE RIGHT TO KNOW: SEE SECTION 3 FOR STATE RTK CHEMICAL NAMES.
TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.
WHMIS CLASS: A, B-5, D-2B

16. OTHER INFORMATION

NFPA RATING: HEALTH-2/FLAMMABILITY-4/REACTIVITY-0/SPECIAL HAZARD-N.AP.
HMIS RATING: HEALTH-2*/FLAMMABILITY-4/REACTIVITY-0/PERSONAL PROTECTION-SEE 8.0

N.AV. = NOT AVAILABLE N.AP. = NOT APPLICABLE

PREPARED BY: HEALTH AND SAFETY

NOTICE TO READER

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE FOR EVALUATING ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

8-XMSDS841316