## ITEM: 6A088 - GRINDING WHEEL 7 IN

MSDS: A8379

PICK REQ: 1007673890

ALUMINUM OXIDE VITRIFIED PRODUCT

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION -

**MATERIAL SAFETY DATA SHEET (MSDS)** 

<del>MANTANANANANAN</del> TRADE NAME: ALUNDUM Associated Grainger Item: 6A088 - GRINDING WHEEL 7 IN MANUFACTURER (4): SAINT-GOBAIN ABRASIVES, INC. ONE NEW BOND STREET 1H970, 1H952, 1H955, 1H956, 1H980, 1H975, 1H989, 1H977, 1H991, 1H979 1H988 1NX31 111978 1H981 1H982, 1H983. 1H984. 1H987, 1NX25 1NX36 1H992 1H999 1NX26 1NX28 1NX29 1NX30 1NX39, 1NX65, 1NX40 1NX66 1NX41 1NX67 WORCESTER, MA 01606 (508) 795-5000 1NX38, 1NX42 1NX33 1NX32 1NX34 1NX43 1NX69 1NX80 1NX44 1NX70 1NX81 1NX64 1NX60 1NX61 1NX62 1NX63 1NX79 1NX71 1NX72 1NX73 1NX74 1NX75 1NX76 1NX77 1NX78 1NX71 1NX82 1PW62 1PW76 1PW88 2D086 2D103 1NX83 1PW63 1PW77 1NX84 1PW67 1PW78 1NX86, 1PW69, 1PW80, 1PW57, 1PW71, 1PW82, 1PW94, REVISION DATE: 1/20/2005 1NX85 1PW68 1PW56 1PW58 1PW59 1PW56, 1PW70, 1PW81, 1PW93, 2D096, 2D113, 2D136, 1PW72 1PW83 1PW73 1PW61 1PW60 1PW84 2D083 MSDS PRINT FORMAT: NUSA 1PW74 1PW75 1PW79 1PW86 2D085 1 PWR9 1PW90 1PW91 1PW92 1PW95 2D097, 2D114, 2D138, 2D087 2D105 2D088 2D107 2D093, 2D111, 2D092 2D099 20100 - SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS 2D117 2D139 2D119 2D140 2D101 2D102 2D121 2D122 2D126 2D131 2D133 2D134 2D135 PERCENT CASH 2D151, 2D168, 2D198, 2D229, SUBSTANCE DESCRIPTION 2D141 2D156 2D142 2D157 2D144 2D159 2D145 2D146 2D147 2D148 2D152 2D154 2D155 2D173, 2D204, 2D231, 2D161 2D188 2D165 2D189 2D166, 2D195, 2D167 2D172, 2D200, 2D176 30.000 - 97.000 1344-28-1 2D205 2D233 ALUMINUM OXIDE, NON-FIBROUS 2D179 2D177 2D178 2D230 2D209 20212 2D215 20217 2D218 20219 2D228. 60676-86-0 2D235, 2D258, 2D278, 2D238 2D265 2D287 2D243 2D248, 2D269, 2D291, 2D313, AMORPHOUS SILICA, FUSED 2.000 - 35.000 2D236 2D261 20237 20239 20249 20251 2D253 2D273 2D294 2D315 2D275 2D296 2D316 2D267 2D290 2D272 2D292 2D257 OTHER: NOT APPLICABLE 2D284 2D288 2D276 2D283 2D309 2D327 2D345 2D298 2D317 20299 20303 20307 2D310 2D312 2D314 2D303 2D323 2D343 2D356 2D334 2D350 2D393 2D321 2D342 2D324 2D344 2D328 2D346 2D329 20330 20332 2D339 2D349, 2D392, 2D423, - SECTION 3. HAZARDS IDENTIFICATION -2D347, 2D378, 2D348, 2D388, 2D352 2D394 2D341 2D358 2D360 2D354 2D355 2D357 INHALATION ACUTE EXPOSURE EFFECTS: DUST MAY BE SLIGHTLY IRRITATING TO EYES AND RESPIRATORY TRACT AT HIGH 2D399 2D426 2D414, 2D427, 2D445 2D415 20417 2D418 2D420 2D421 2D422 2D424 2D425 2D435 2D429 2D447 2D432 2D448 2D436 2D433 2D43 20438 20439 2D443 2D818 2D831 2D821 2D832 2D822 2D833 CONCENTRATIONS. 2D816 2D813 2D814 2D444 2D826 2D823 20824 2D825 2D827 2D828 2D829 2D830 2D834 2D845 2D857 2D835 2D846 2D837 2D848 2D861 INHALATION CHRONIC EXPOSURE EFFECTS: 20836 2D838 20839 20840 2D841 2D842 2D843 2D844 INHALATION CHRONIC EAPOSURE EFFECTS OF TRODUCTS CONTAINING AMORPHOUS SILICA, FUSED, THERE IS LIMITED EVIDENCE IN ANIMALS THAT EXCESSIVE AND PROLONGED EXPOSURE TO THIS CHEMICAL MAY CAUSE PULMONARY FIBROSIS. 2D851, 3PY74, 3UN86, 2D852, 3PY75, 3UN91, 2D849 2D862 2D850 2D863 2D853 3PY76 2D854 2D856 3PY78 3UP09 2D860 2D859 3PY79 3VZ97 3PY80 3PVR1 3PY82 3UN76 3UN84 3UP02 3UP07 3WC13, 3WC50, 3WC72, 3WC02 3WC44 3WC08 3WC45 3WC11 3WC48 3WC25 3WC51 3WC38 3WC39 3WC40 3WC41 EVE CONTACT ACTIVE EXPOSURE EFFECTS: DUST MAY IRRITATE EYES. 3WC52 3WC74 3WC53 3WC76 3WC64 3WC77 3WC65 3WC78 3WC43 3WC73 3WC66 3WC68 3WC69 3WC70 3WC71 SKIN CONTACT ACUTE EXPOSURE EFFECTS: 3WC83 3WC98 3WL40 3WC79 3WC94 3WC81 3WC95 3WC84 3WC85 3WC86 3WC87 3WC88 3WC89 3WC91 3WC92 SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST. 3WC99 3WL43 3WD01 3WD02 3WD03 3WL67 3WD05 3WL77 3WD06 3WD07 SOUME 3WK47 3WL36 3WL45 3WL49 INGESTION ACUTE EXPOSURE EFFECTS:
NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED. 3WM48 3WT-84 301.86 3MM23 3WM32 **3WM34** 3WM36 3WM37 3WM40 3WM42 3WM95 3WM51 3WN10 3WM6: 3WM66 3WN15 3WM92 3WN17 3WM74 3WM93 3WM94 3WM99 3WN09 3WN48 3WN77 3WN49 3WN78 3WN62 3MN1 3WN64 3WN65 3WN66 3WN67 3WN68 3WN70 3WN76 - SECTION 4. FIRST AID MEASURES -3WP03, 3WP29, 3WP62, 3WP84, 3WP04 3WP40 3WP64 3WP87 3WP05 3WP41 3WP67 3WP92 3WN83 3WP09 SMNB 3WN93 3WN94 3WN98 3WN99 3WP01 3WP06 3WP17 3WP48 3WP23 3WP55 3WP24 3WP56 3WP26 3WP57 3WP28 3WP42 3WP68 3WP94 INHALATION: 3WP61 3WP44 REMOVE TO FRESH AIR. IF EREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION.
GET MEDICAL ATTENTION IMMEDIATELY. 3WP71 3WP69 3WP70 3WP77 3WP79 3WP82 3WP83 3WP97 3WR46 3WR44 3WP98 3WR08 3WR20 3WR22 3WR26 3WR27 3WR37 3WR43 3WR48 3WR63 3WR49 3WR64 3WR50 3WR65 3WR53 3WR66 3WR54 3WR69 3WR55 3WR56 3WR59 SKIN CONTACT: WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSISTANCE. 3WR61 3WR62 7mm /3 3WR74 3WR75 3WR76 3WR77 3WR79 3WRB1 3WR83 3WT61 3WR88 3WR90 3WR93 3WI49 3WI74 3WI98 3WI54 3WI75 3WV05 3WI55 3WI76 3WV06 3WI'58 3WI'78 3WV09 3WR96 3WI72 3WR99 3WI73 311159 3WT63 3WT65 3W171 3WT81 3WV23 3WV45 3WT85 3WV32 3WV46 3WT90 3WV33 3WV47 3WI79 3WV19 3WI80 3WV22 WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE, IF NEEDED. 3WT91 3WT92 3WV34 3WV37 3WV38 3WV39 3WV41 3WV42 3WV43 3WV44 3WV53 3WV76 3WV97 3WV70 3WV82 3WW06 3WW48 3WV48 3WV72 3WV49 3WV73 3WV51 3WV52 3WV75 30075 3WV62 3WV63 3WV64 3WV71 3WV77 3WV98 3WV79 3WV99 3WV80 3WW02 3WV81 3WW03 3WV83 3WW08 3WW49 TNGESTION: CALL POISON CONTROL CENTER, HOSPITAL EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY. 3WV94 3WV87 3WV92 3WV96 3WW44 3WWT O 3WV1.8 3WW19 3WW27 3WW28 3WW29 3WW43 3WW52 3WW66 3WV53 3WV67 3WW87 3WW62 3WW80 3WW95 4B138 3WW51 3WW54 3WW5 3WW57 3WW58 3WW60 3WW61 3WW78, 3WW94, 4B129, 3WW69 3WW89 3WW71 3WW90 3WW72 3WW91 3WW73 3WW92 3WW76 3WW93 - SECTION 5. FIRE FIGHTING MEASURES 3WWB4 3WWB1 3WW83 SIMMIS SIMUS SMMGC 3WX01 3WX02 3WX05 3XG15 4B127 4B128 4B194 4F764 4F777 4B200 4F765 4F778 4F758 4F770 5A881 4B201 4F766 4B203 FIRE FIGHTING PROCEDURES: NOT APPLICABLE 4B193 4B212 4F759 4F762 4F775 5A885 4F767 4F937 4F771 5A882 4F760 4F761 HAZARDOUS PRODUCTS/COMBUSTION: NONE. 4F773 5A883 5A905 5A920 4F774 4F776 4F779 4F938 5A884 5A906 6A083 5A900, 5A911, 6A088, 6NZ76, 58898 5A903 5A897 5A899 5A901 5A902 5A904 5A907 6A084 5A908 6A085 5A909, 6A086, 5A910 6A087 5A912 6A089 5A914 6A090 HAZARD RATING SOURCE: 5A916 5A918 6A091 6NZ82 6A092 6NZ83 NFPA: 6A093 6A094 6B519 6NZ72 6NZ74 6NZ75 6NZ78 6NZ79 6NZ85 6PC59 6PC76 6NZ84 6PC49 HEALTH 6NZ86 6NZ87 6NZ92 6PCO8 6PC25 6PC27 6PC40 6PC46 6PC47 6PC60 6PC77 6PC62 6PC78 6PC63, 6PC79 6PC66 6PC80 6PC67 6PC85 6PC68 6PC86 6PC70 6PC87 6PC71 6PC88 FT AMMABILITY O 6PC73 REACTIVITY OTHER 6PC75 6PC92 6PD45 6PD59 6PD71 6PH09 6PD47 6PD07 6PD40 6PD41 6PD42 6PD43 **6PD44** 6PD46 6PD48 6PD53, 6PD68, 6PD81, 6PD49 6PD50 6PD51 6PD66 6PD52 6PD67 6PD54 6PD69 6PD58, 6PD70, 6PD60 6PD61 6PD63 6PD73 6PH11 6PD76 6PH16 6PD64 - SECTION 6. ACCIDENTAL RELEASE MEASURES 6PG95 6PH10 6PD77 6PD78 6PD79 6PD80 6PG56 6PH50 6PH70 **6PH76 6PH78** 6PH79 6PHR1 **6PH82** 6PH97 6PJ07 6PJ09 CLEAN-UP: FOLLOW NORMAL CLEAN UP PROCEDURES. 6PJ49 6PK32 6PJ53 6PK53 6PJ54 6PK64 6PJ64 6PK88 6PJ68 6PK89 6PJ48, **6PTR4** 6PK90 6PL22 6PK04 6PK29 6PK30 6PK31 6PK91 6PK92 6PK93 6PK99 6PL01 6PL02 6PL04 6PL05 6PL06 6PL09 6PL38 6RG79 6RH05 6PL39, 6RG80, 6RH06, - SECTION 7. HANDLING AND STORAGE -6PL23 6PL43 6PL28 6PL48 6PL33 6PL51 6PL34 6PL55 6PL35 6PL36 6RG76 6PL37 6RG77 6PT.40 6PI.41 6RGB1 6RH07 6RG83 6RH08 HANDLING:
ALWAYS HANDLE AND STORE WHEELS IN A CAREFUL MANNER.
ALWAYS VISUALLY INSPECT ALL WHEELS BEFORE MOUNTING.
ALWAYS VISUALLY INSPECT ALL WHEELS BEFORE MOUNTING.
ALWAYS CHECK MACHINE SPEED AGAINST THE ESTABLISHED MAXIMUM SAFE OPERATING
SPEED MARKED ON THE WHEEL.
ALWAYS CHECK MOUNTING FLANGES FOR EQUAL AND CORRECT DIAMETER.
ALWAYS USE MOUNTING BLOTTERS.
ALWAYS USE MOUNTING BLOTTERS.
ALWAYS USE A SAFETY GUARD COVERING AT LEAST ONE-HALF OF THE GRINDING WHEEL.
ALWAYS USE A SAFETY GUARD COVERING AT LEAST ONE-HALF OF THE GRINDING WHEEL.
ALWAYS ALLOW NEWLY MOUNTED WHEELS TO RUN AT OPERATING SPEED, WITH GUARD IN **GRG91** GRC497 6RG98 6RG99 6RH02 6RH03 6RH04 6RH09 6RH20 6RH10 6RH21 6RH11 6RH22 6RH13 6RH24 6RH35 6RH12 6RH14 6RH15 6RH16 6RH17 **6RH18** 6RH1.9 6RH26, 6RH37, 6RH27, 6RH38, GRH28, GRH39, 6RH29 6RH40 6RH30 6RH50 6RH33 6RH36 6RH31 6RH32 6RH34 6RH53, 6RH81, 6RH55 6RH82 6RH51 **6RH52** 6RH57 6RH58 6RH60. 6RH61 6RJ27 6RH62 6RH65 6RH66 GRHB6, 6 , GRJ37, 6RJ03, 6RJ25, 6F , 6RJ44, 6RJ57, 6R-T28 6R-T29 6R-T30 6RJ36, 6RJ59, 6RJ31, NORTON PLACE, FOR AT LEAST ONE MINUTE BEFORE GRINDING. ALWAYS TURN OFF COOLANT BEFORE STOPPING WHEEL TO AVOID CREATING AN NORTON COMPANY OUT-OF-BALANCE WHEEL MATERIAL SAFETY DATA SHEET PART#: 66252830649 - SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION -PRINTED: MAY 09, 2005 VENTITIATION PROTECTION: VENTILATION PROTECTION:
RECOMMEND USING LOCAL EXHAUST VENTILATION WHEN GENERAL VENTILATION IS NOT KEEPING THE AIRBORNE CONCENTRATION BELOW THE TLV. \_\_ NO .: ALVITOO1 OUTBOUND

RESPIRATORY PROTECTION:
RESPIRATORS ARE REQUIRED WHEN AIRBORNE CONTAMINANT LEVELS EXCEED THE

ALMAYS WEAR SAFETY GLASSES OR SAME TIPE OF BIE ENDIRETION WHEN GLOUDING.
OTHER PROTECTION: USE OF THIS PRODUCT MAY CREATE ELEVATED SOUND LEVELS. HEARING PROTECTION SHOULD BE WORN WHERE REQUIRED (SEE OSHA 29 CFR 1910.134 AND OTHER APPLICABLE REGULATIONS).
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
AARANCE & ODOR: SOLID ARTICLE. ODORLESS.
SECTION 10. STABILITY AND REACTIVITY
INCOMPATIBILITIES: AVOID ACIDS OF ALL TYPES WITH A pH <4.0.
DECOMPOSITION: IN USE, DUSTS AND DECOMPOSING ODORS MAY BE GENERATED. IN MOST CASES, THE MATERIAL REMOVED FROM THE WORKPIECE WILL BE SIGNIFICANTLY GREATER THAN THE GRINDING WHEEL COMPONENTS. COOLANTS MAY PRODUCE OTHER DECOMPOSITION PRODUCTS.
FOR PRODUCTS CONTAINING PHENOL AND FORMALDEHYDE RESIN, THERMAL DECOMPOSITION MAY PRODUCE TRACE AMOUNTS OF PHENOL AND FORMALDEHYDE.
FOR PRODUCTS CONTAINING INORGANIC FLUORIDES, THERMAL DECOMPOSITION MAY PRODUCE TRACE AMOUNTS OF FLUORIDES.
SECTION 11. TOXICOLOGICAL INFORMATION
CARCINOGENICITY: SILICA, AMORPHOUS, FUSED: LARC: 3 NIOSH: X
LD50/LC50: VALUES ARE NOT APPROPRIATE OR AVAILABLE.
SECTION 12. ECOLOGICAL INFORMATION
CHEMICAL FATE: VITRIFIED PRODUCTS DO NOT APPRECIABLY DECAY.
SECTION 13. DISPOSAL CONSIDERATIONS
WASTE DISPOSAL: USE STANDARD: LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS.
PRODUCTS WITH LISTED FLOURIDES MAY HAVE SLIGHTLY SOLUBLE FLOURIDE SWARF.
RECYCLING PROGRAM: THE COMPANY HAS DEVELOPED A GRINDING WHEEL RECYCLING PROGRAM. IF YOU ARE INTERESTED IN RETURNING YOUR STUBS, INFORMATION CAN BE OBTAINED BY DIALING CUSTOMER SERVICE.
SECTION 14. TRANSPORT INFORMATION
AD CLASS: THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY THE DEPARTMENT OF
TRANSPORTATION. (USA)  THIS PRODUCT IS "NOT REGULATED" UNDER THE TRANSPORTATION OF DANGEROUS GOODS ACT. (CAN)
SECTION 15. REGULATORY INFORMATION
EXPOSURE LIMITS/REGULATORY INFORMATION:
SUBSTANCE DESCRIPTION UNITS OSHA ACGIH MOL
ALLMINIM OXIDE, NON-FIERCUS MG/M3 15.0000 10.0000 10.0000
AMORPHOUS SILICA, FUSED MG/M3 0.1000 0.1000 0.0000
LEGEND:
EXPOSURE LIMIT DESCRIPTIONS:
CA PROP 65: NOT APPLICABLE
TSCA: SECTION 8 (B) - INVENTORY STATUS: ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE TOXIC SUBSTANCE CONTROL ACT.
DOMESTIC SUBSTANCE LIST: ALL COMPONENTS OF THIS PRODUCT ARE FOUND ON THE DOMESTIC SUBSTANCE LIST.
SECTION 16. OTHER INFORMATION
DISCLAIMER: THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE TAKEN FROM SOURCES BELLEVED TO BE ACCURATE AS OF THE DATE HEREOF; HOWEVER, THE COMPANY MAKES NO WARRANTY WITH RESPECT TO THE ACCURACY OF THE INFORMATION OR THE SUITABILITY OF THE RECOMMENDATIONS, AND ASSUMES NO LIABILITY TO ANY USER THEREOF.
KEY TO ABBREVIATIONS: EQ-BQUAL LIT-LESS THAN GT-GREATER THAN AP-APPROXIMATELY TR-TRACE ND-NO DATA AVAILABLE
2 <sup>m</sup> - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

EYE PROTECTION:

## ITEM: 6A089 - GRINDING WHEEL 7 IN

MSDS: A8379

PICK REO: 1007673890

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION -

**MATERIAL SAFETY DATA SHEET (MSDS)** 

Associated Grainger Item: 6A089 - GRINDING WHEEL 7 IN TRADE NAME: ALUNDUM 1H970, MANUFACTURER (4) 1H952 1H955 1H956, 1H957, 1H958 1H964. 1H965. 1H987 SAINT-GOBAIN ABRASIVES, INC. 1H977 1H991 1H981, 1NX26, 1H982, 1NX27, 1H978 1H992 1H979 111983 1H984 1H988 ONE NEW BOND STREET 1NX31 1NX42 1H999 1H989 WORCESTER, MA 01606 (508) 795-5000 1NX32, 1NX43, 1NX69, 1NX40 1NX41 1NX33 1NX34 1NX35 1NX36 1NX37 1NX38 1NX39 1NX44 1NX70 1NX60 1NX71 1NX61 1NX72 1NX83 1NX62 1NX73 1NX84 1NX63 1NX64 1NX65 1NX66 1NX67 1NX68 1NX76, 1PW56, 1PW70, 1NX77 1PW57 1PW71 1NX78 1PW58 1PW72 1PW83 1NX74 1NX85 1NX75 1NX86 1NX70 REVISION DATE: 1/20/2005 1NX80 1NX81 1NX82 1PW60 1PW61 1PW62 1PW63 1PW67 1PW68 1PW69 MSDS PRINT FORMAT: NUSA 1PW75 1PW86 2D085 1PW76, 1PW88, 2D086, 1PW77 1PW89 2D087 1PW78 1PW90 2D088 1PW74 1PW85 1PW79 1PW80 1.PW81 1PW82 1PW84 1PW93, 2D096, 2D113, 1PW91 2D092 1PW92, 2D093, 1PW94 2D097 1 DW95 20083 2D099 2D117 2D100 2D119 2D084 - SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS -2D107 2D101 2D102 2D103 2D105 2D110 2D111 2D114 2D102 2D122 2D142 2D157 2D126 2D144 2D159 2D133 2D146 2D165 2D121 2D141 2D131 2D134 2D135 2D136 2D138 2D139 2D140 PERCENT CAS# 2D145 2D161 2D147 2D166 2D148 2D167 2D151 2D168 2D152 2D172 2D154 2D173 2D155 SUBSTANCE DESCRIPTION 2D176 2D205 2D156 30.000 - 97.000 1344-28-1 2D178 2D212 2D235 ALIMINIM OXIDE, NON-FIBROUS 2D177 2D209 2D200 20179 2D188 20189 2D195 20197 2D198 2D204 2D217 2D237 2D218 2D238 2D219 2D239 2D228 2D243 20229 2D230 20231 20233 2D249, 2D272, 2D251 2D273 2D253 2D275 2.000 - 35.000 60676-86-0 AMORPHOUS SILICA, FUSED 2D234 2D257, 2D276, 2D298, 2D265 2D267 2D269 2D258 2D261 2D262 2D266 OTHER: NOT APPLICABLE 2D278 2D299 2D291, 2D313, 2D330, 2D348, 2D283 20284 20287 2D288 2D290 2D292 2D294 2D296 2D314, 2D332, 2D349, 2D307 2D324 2D309 2D327 2D310, 2D328, 2D312, 2D329, 2D315 2D316 2D334 2D350 2D339 2D352 2D321 2D317 SECTION 3. HAZARDS IDENTIFICATION -2D347, 2D378, 2D341 2D342 2D343 2D344 2D345 2D346 2D354 2D399 2D355 2D356 20357 2D358 2D360 2D388. 2D392 2D393 2D394 INHALATION ACUTE EXPOSURE EFFECTS: 2D417 2D432 2D418 2D433 2D421, 2D435, 2D422 2D436 2D423 2D438 20424 20425 DUST MAY BE SLIGHTLY IRRITATING TO EYES AND RESPIRATORY TRACT AT HIGH CONCENTRATIONS. 2D426 2D444 2D427 2D445 2D429 2D434 20447 20448 2D813 2D814 2D816 2D817 2D818 2D821 2D822 2D826 2D837 2D848 2D823 2D834 2D824 2D835 2D825 2D836 2D827 2D838 2D828 2D829 20830 20831 20832 20833 2D840, 2D851, 2D841 2D852 2D842 2D853 2D843 2D854 2D844 2D856 TNHALATION CHRONIC EXPOSURE EFFECTS: MAY AFFECT BREATHING CAPACITY. FOR PRODUCTS CONTAINING AMORPHOUS SILICA, FUSED, THERE IS LIMITED EVIDENCE IN ANIMALS THAT EXCESSIVE AND PROLONGED EXPOSURE TO THIS CHEMICAL MAY CAUSE PULMONARY FIBROSIS. 2D845 2D846 2D847 2D849 2D850 20857 20859 20860 2D861 20862 2D863 3PY74 3PY75 3PY76 3PY77 3PY78 3PY80 3WC02 3PY81 3WC08 3PY82 3WC11 3UN76 3WC12 3UN84 3WC13 3UN86 3WC25 3UN91 3WC38 3UP02 3WC39 31TP07 317209 3WC40 3WC64 3WC41 3WC65 3VZ97 EYE CONTACT ACUTE EXPOSURE EFFECTS: DUST MAY IRRITATE EYES. 3WC51 3WC53 3WC43 3WC44 3WC45 3WC48 3WC49 3WC50 3WC52 3WC68 3WC78 3WC66 3WC69 3WC70 3WC71 3WC:72 3WC73 3WC74 3WC76 3WC77 3WC92 3WD08 3WL83 SKIN CONTACT ACUTE EXPOSURE EFFECTS: 3WC83 3WC98 3WC85 3WD01 3WC86 3WD02 3WC87 3WD03 3WC88 3WD05 3WC89 3WD06 3WC91 3WD07 SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST. 3WC99 3WC94 3WC95 3WK47 3WL36 3WT.40 3WI 43 3WT.4F 3WI 49 3WL67 3WL77 3WL81 3WL82 3WM23 3WM61 3WM32 3WM66 3WM34 3WM74 3WM36 3WM92 INCESTION ACTUE EXPOSURE EFFECTS: 3WM37 3WM40 3WM42 3WM48 3WM4.9 NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED. 3WM59 3WM51 3WN1.0 3WN11 3WN12 3WN15 3WN16 3WN17 3WN47 3WN48 3WN49 3WN58 RWN6 3WN68 3WN70 3WN76 3WN77 3WN78 3WN80 3WN81 3WP01 3WP28 3WP03 3WP29 3WP04 3WP40 3WP05 3WP41 - SECTION 4. FIRST AID MEASURES -3WN83 3WN98 3WN99 3WP06 3WP09 3WP17 3WP21 3WP23 3WP24 3WP26 INCLUSION: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. 3WP44 3WP48 3WP49 3WP5! 3WP56 3WP57 3WP61 3WP62 3WP64 3WP67 3WP68 3WP70 3WP71 3WP98 3WP79 3WR20 3WP69 3WP7 3WP82 3WP83 3WP84 3WP87 3WP92 3WP94 3WR44 3WR59 3WR37 3WR55 3WR46 3WR47 3WR48 3WR49 3WR50 3WR53 3WR54 SKIN CONTACT: 3WR61 3WR62 3WR63 3WR64 3WR65 3WR66 3WR69 3WR70 3WR71 3WR72 3WR74 3WR99 3WR75 3WI49 3WR76 3WI54 3WR77 3WI55 3WR79 3WT58 3WR81 3WT59 3WR83 3WT61 3WR88 3WT63 3WR90 3WI65 3WR93 WASH AFFECTED AREAS WITH SOAP AND WATER, OBTAIN MEDICAL ASSISTANCE. 3WI71 3WI90 3WR96 EYE CONTACT: 3WT81 3WI72 3WI73 3WI74 3WI75 3WI76 3WT78 3WI79 3WT80 3WT85 WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE, 3WV22 3WV44 3WV63 3WT91 3WT92 3WT98 30000 3WV06 3WV09 3WV1.9 3WV23 3WV32 3WV33 3WV41 3WV53 3WV42 3WV54 3WV43 3WV62 3WV45 3WV64 3WV38 3WV39 3W1746 30047 TE NEEDED. 3WV71 3WV83 3WV48 3WV49 3WV52 INGESTION: CALL POISON CONTROL CENTER, HOSPITAL EMERGENCY ROOM OR PHYSICIAN 3WV72 3WV73 3WV74 3WV75 3WV76 3WV77 3WV79 3WV80 3WV81 3WV82 3WV87 3WW10 3WW50 3WV92 3WW18 3WW51 3WV94 3WV96 3WV97 3WV98 3WV99 3WW02 3WW03 3WW06 3WW08 3WW19 3WW52 3WW27 3WW53 3WW28 3WW54 3WW29 3WW55 3WW41 3WW57 3WW44 3WW60 3WW48 3WW49 IMMEDIATELY. 3WW61 3WW78 3WW71 3WW73 3WW76 3WW64 3WW65 3WW66 3WW6 3WW69 3WW72 3WW81 3WW96 4B140 3WW83 3WW98 4B141 - SECTION 5. FIRE FIGHTING MEASURES -3WW84 3WW99 3MXB 3WW91 3XG15 3WWB9 3WW90 3WW92 3WW93 3WW94 4B129 3WW95 4B128 4B212 4B138 4F758 FIRE FIGHTING PROCEDURES: NOT APPLICABLE 4B191 4B193 4B194 4B200 4B201 4F763 4F776 5A897 4F764 4F777 5A898 4F766, 4F779, 5A900, 4F771 4F760 4F761 4F762 4F765 4F767 4F769 4F770 4F938 5A902 5A914 4F773 5A883 4F774 5A884 4F775 58881 5A882 HAZARDOUS PRODUCTS/COMBUSTION: NONE 5A903 5A916 5A904 5A918 5A885 HAZARD RATING SOURCE: 5A911 5A905 5A906 5A907 5A908 5A909 5A910 5A920 6A083 6A084 6A085 6A086 6A087 6A088 6A089 6A090 6A091 6A092 6NZ79 6PC40 6PC70 6B519 6NZ86 6NZ72 6NZ87 6NZ74 6NZ92 6NZ75 6PC08 6NZ76 6PC25 6NZ78 6PC27 NEPA: 6A093 6NZ82 6NZ83 HEALTH 6PC47 6PC73 6NZ85 6NZ84 FLAMMABILITY REACTIVITY 6PC62 6PC78 6PD41 6PC63 6PC79 6PD42 6PD53 6PC67 6PC71 6PC49 6PC59 6PC60 6PC77 6PC66 6PC68 6PC76 6PCR0 SPC85 6PCR6 SPC87 6PC88 6PCR9 6PD43 6PD44 6PD58 6PD45 6PD59 6PD46 6PD60 6PD47 6PD61 6PD48 6PD63 OTHER 6PD49 6PD50 6PD51 6PD52 **6PD64** 6PD69 6PD66 6PD67 6PD68 6PD69 6PD70 6PD71 6PD72 6PD73 6PD76 - SECTION 6. ACCIDENTAL RELEASE MEASURES -6PD77 6PH50 6PD78 6PH60 6PD79 6PH70 6PD80 6PH76 6PD81 6PH78 6PG56 6PH79 6PG95 6PH81 6PH09 6PH82 6PH10 6PH11 6PH16 6PJ07 6PJ09 CLEAN-UP: FOLLOW NORMAL CLEAN UP PROCEDURES. **6PJ56 6PJ84** 6PJ27 6PJ44 6PJ45 **6PJ48** 6PJ49 **6PJ53** 6PJ54 6PJ64 6PJ68 6PK04 6PK91 6PL23 6PK29 6PK30 6PK31 6PK32 6PK53 **6PK64** 6PK65 **6PK88** 6PK89 6PK90 6PK93 6PK99 6PL34 6PL01 6PL35 6PL04, 6PL37 6PLO5 6PL06 6PL39 6PL09 6PL40 - SECTION 7. HANDLING AND STORAGE -6PL28 6PL33 6PL36 **6PT 43 6PT48** 6PI 51 6PT-55 **6PI 56** 6RG76 6RG77 6RG79 6RG80 6RG81 6RG83 6RG91 6RH09 6RG97 6RG98 6RG99 6RH12 6RH02 6RH13 6RH03 6RH14 6RH04 6RH15 6RH06 6RH17 6RH05 6RH07 **GRHOB** HANDI TNG . HANDLE AND STORE WHEELS IN A CAREFUL MANNER.
ALWAYS VISUALLY INSPECT ALL WHEELS BEFORE MOUNTING.
ALWAYS CHECK MACHINE SPEED AGAINST THE ESTABLISHED MAXIMUM SAFE OPERATING 6RH20 6RH21 6RH22 6RH23 6RH24 6RH25 6RH26 6RH27 6RH28 6RH29 6RH30 6RH32 6RH52 6RH33, 6RH53, 6RH31 6RH34 **6RH35** 6RH36 **6RH37** 6RH38 **6RH39 6RH40 6RH50** ALMAYS CHECK MACHINE SPEED AGAINST THE ESTABLISHED MAXIMIM SAFE OPERATING SPEED MARKED ON. THE WHEEL, ALMAYS CHECK MOUNTING FLANGES FOR EQUAL AND CORRECT DIAMETER. ALMAYS USE MOUNTING BLOTTERS. ALMAYS BE SURE WORK REST IS PROPERLY ADJUSTED. ALMAYS USE A SAFETY GUARD COVERING AT LEAST CAB-HALF OF THE GRINDING WHEEL, ALMAYS ALLOW NEWLY MOUNTED WHEELS TO RUN AT OPERATING SPEED, WITH GUARD IN PLACE, FOR AT LEAST ONE MINUTE BEFORE GRINDING.
ALMAYS TURN OFF COOLANT BEFORE STOPPING WHEEL TO AVOID CREATING AN OUTLOUR DALANCE WHEEL 6RH61 6RJ27 GRH58, GRJ03, 6RH62 6RH86 6RJ25 6RH67 6RH74 6RH81 6RH82 6RJ57, ങ്ങ് 37 6R.T35 6RJ44, 6RJ36 6RJ59, 6RJ60, 6RJ64 6RJ31 NORTON NORTON COMPANY MATERIAL SAFETY DATA SHEET PART#: 66252830649 - SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION -PRINTED: MAY 09, 2005 VENTILATION PROTECTION: RECOMMEND USING LOCAL EXHAUST VENTILATION WHEN GENERAL VENTILATION IS NOT NO.: ALVITO01 OUTBOUND م EEPING THE AIRBORNE CONCENTRATION BELOW THE TLV. ALUMINUM OXIDE VITRIFIED PRODUCT RESPIRATORY PROTECTION: RESPIRATORS ARE REQUIRED WHEN AIRBORNE CONTAMINANT LEVELS EXCEED THE

EYE PROTECTION: ALWAYS WEAR SAFETY GLASSES OR SOME TYPE OF EYE PROTECTION WHEN GRINDING.
OTHER PROTECTION: USE OF THIS PRODUCT MAY CREATE ELEVATED SOUND LEVELS. HEARING PROTECTION SHOULD BE WORN WHERE REQUIRED (SEE OSHA 29 CFR 1910.134 AND OTHER APPLICABLE REGULATIONS).
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
RANCE & ODOR: SOLID ARTICLE. ODORLESS.
SECTION 10. STABILITY AND REACTIVITY
INCOMPATIBILITIES: AVOID ACIDS OF ALL TYPES WITH A pH <4.0.
DECOMPOSITION.
IN USE, DUSTS AND DECOMPOSING ODORS MAY BE GENERATED. IN MOST CASES, THE MATERIAL REMOVED FROM THE WORKPIECE WILL BE SIGNIFICANTLY GREATER THAN THE GRINDING WHEEL COMPONENTS. COOLANTS MAY PRODUCE OTHER DECOMPOSITION PRODUCTS.
FOR PRODUCTS CONTAINING PHENOL AND FORMALDEHYDE RESIN, THERMAL DECOMPOSITION MAY PRODUCE TRACE AMOUNTS OF PHENOL AND FORMALDEHYDE.
FOR PRODUCTS CONTAINING INORGANIC FLUORIDES, THERMAL DECOMPOSITION MAY PRODUCE TRACE AMOUNTS OF FLUORIDES.
SECTION 11. TOXICOLOGICAL INFORMATION
CARCINGGENICITY:
SILICA, AMORPHOUS, FUSED: IARC: 3 NIOSH: X
LD50/LC50: VALUES ARE NOT APPROPRIATE OR AVAILABLE.
2000) 20001 1222 122 112 112 112 112 112 112
SECTION 12. ECOLOGICAL INFORMATION
CHEMICAL FATE: VITRIFIED PRODUCTS DO NOT APPRECIABLY DECAY.
SECTION 13. DISPOSAL CONSIDERATIONS
WASTE DISPOSAL: USE STANDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS.
PRODUCTS WITH LISTED FLOURIDES MAY HAVE SLIGHTLY SOLUBLE FLOURIDE SWARF.
RECYCLING PROGRAM: THE COMPANY HAS DEVELOPED A GRINDING WHEEL RECYCLING PROGRAM. IF YOU ARE INTERESTED IN RETURNING YOUR STUBS, INFORMATION CAN BE OBTAINED BY DIALING CUSTOMER SERVICE.
SECTION 14. TRANSPORT INFORMATION —
(D CLASS: THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY THE DEPARTMENT OF TRANSPORTATION: (USA)
THIS PRODUCT IS "NOT REGULATED" UNDER THE TRANSPORTATION OF DANGEROUS GOODS ACT. (CAN)
EXPOSURE LIMITS/REGULATORY INFORMATION:
EXPOSURE LIMITS/REGULATORY INFORMATION: SUBSTANCE DESCRIPTION UNITS OSHA ACGIH MOL
ALUMINUM OXIDE, NON-FIBROUS MG/M3 15.0000 10.0000 10.0000
AMORPHOUS SILICA, FUSED MG/M3 0.1000 0.1000 0.0000
LECEND:
EXPOSURE LIMIT DESCRIPTIONS:
CA PROP 65: NOT APPLICABLE
TSCA: SECTION 8(B) - INVENIORY STATUS: ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE TOXIC SUBSTANCE CONTROL ACT.
DOMESTIC SUBSTANCE LIST: ALL COMPONENTS OF THIS PRODUCT ARE FOUND ON THE DOMESTIC SUBSTANCE LIST.
SECTION 16. OTHER INFORMATION
DISCLAIMER: THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE TAKEN FROM SOURCES BELLEVED TO BE ACCURATE AS OF THE DATE HEREOF; HOWEVER, THE COMPANY MAKES NO WARRANTY WITH RESPECT TO THE ACCURACY OF THE INFORMATION OR THE SUITIABILITY OF THE RECOMMENDATIONS, AND ASSUMES NO LIABILITY TO ANY USER THEREOF.
KEY TO ABBREVIATIONS:
EQ-EQUAL INT-LESS THAN GT-GREATER THAN AP-APPROXIMATELY
TR=TRACE