

VCM PROPERTIES

NORMALLY A GAS

- ODORLESS**
- COLORLESS**

A LIQUID UNDER PRESSURE

VCM HAZARDS

FIRE

AOL

FROST BITE

INHALATION

LIVER CANCER

CHROMOSOME DAMAGE



VCM HEALTH GOALS

**KEEP EXPOSURES AS LOW
AS POSSIBLE**

VCM SAFE LIMITS

1 PPM (8-HOUR TWA)

5 PPM (ANY 15 MINUTES)

VCM LEAKS

NO LEAK IS ACCEPTABLE

INDICATORS OF LEAKS:

- ICING**
- HISSING NOISES**
- CONDENSATION**
- ODOR**
- MEASUREMENT**

RESPIRATOR USE - VCM

1000 PPM OR LESS

- USE AIR LINE RESPIRATOR

ABOVE 1000 PPM

OR UNKNOWN

- USE SCOTT AIR PAK

PROTECTIVE CLOTHING

DEPENDS ON JOB

MAY INCLUDE:

- CLOTH GLOVES**
- RUBBER GLOVES**
- AIR-LINE RESPIRATOR**
- SCOTT AIR-PAK**
- BULLARD RESPIRATOR**
- DISPOSABLE COVERALLS**
- FACE SHIELD**

EMERGENCIES

BE PREPARED!

**GO TO YOUR EMERGENCY
POST WHEN ALERTED**

VCM MONITORING

AREA

- HONEYWELLS
- HNU

PERSONAL EXPOSURE

- REAL MINIMONITOR
 - WEAR AS INTENDED
 - FILL OUT CARD

MEDICAL TESTING

**TO DETECT MEDICALLY
SIGNIFICANT PROBLEMS
RELATED TO VCM OR
OTHER CHEMICALS**

**TAKE ADVANTAGE OF THE
PROGRAM. PARTICIPATE!**

RECORDS

MONITORING - 30 YEARS

**MEDICAL - LENGTH OF
EMPLOYMENT + 30 YEARS**

LEAD PROPERTIES AND USE

APPEARANCE

- FINE, LIGHT-COLORED POWDERS
- HARD TO DISTINGUISH BETWEEN LEAD AND OTHER HARMLESS MATERIALS

USE

- COMPOUND LUBRICANTS/
HEAT STABILIZERS

LEAD HEALTH PROBLEMS

NERVOUS SYSTEM

REPRODUCTIVE SYSTEM

BLOOD SYSTEM

KIDNEYS

LEAD POISONING SIGNS
STOMACH PAINS
LOSS OF APPETITE
NAUSEA
METTALIC TASTE
CONSTIPATION
FATIGUE
TREMORS
IRRATIONAL BEHAVIOR
INSOMNIA
CONVULSIONS
HEADACHES

SAFE LIMITS - LEAD

DEPENDS ON WORK TIME:

50 MICROGRAMS (8-HRS)

40 MICROGRAMS (10-HRS)

33.3 MICROGRAMS (12-HRS)

30.8 MICROGRAMS (13-HRS)

RESPIRATORS

**3M AIRHATS REQUIRED FOR
CERTAIN JOBS**

CHECK AIRFLOW EACH SHIFT

**TURN IN FOR CLEANING AND
REPAIR, PER PROCEDURES**

DUST CONTROL

**KEEP ALL VENT HOODS AND
EXHAUST FANS ON**

AVOID CRUSHING OF BAGS

**USE VACUUM FOR CLEANING
- COMPRESSED AIR IS
ILLEGAL!**

PERSONAL HYGIENE

**WASH HANDS, ARMS, FACE
BEFORE EATING, DRINKING,
SMOKING, USING COSMETICS**

**DON'T TAKE FOOD, DRINK,
TOBACCO INTO LEAD AREAS**

EQUIPMENT REPAIR

**CLEAN EQUIPMENT BEFORE
MAINTENANCE**

**VENTILATE AREA DURING
HOTWORK ON CONTAMINATED
EQUIPMENT OR ELSE USE
AIR-SUPPLIED RESPIRATOR**

HEARING LOSS

CANNOT BE REPAIRED

CAN HAPPEN TO ANYONE

A NATURAL PART OF AGING

**- DEPENDS ON VARIETY OF
HEALTH EFFECTS**

HASTENED BY OVEREXPOSURE

PLANT NOISE

EXAMPLES OF HIGH NOISE

VINYL - FLUID BED DRYER

COMPOUND - LINE 3

MAINTENANCE - BOILERS

GENERAL - FIRE PUMPS

CAN OCCUR ANYWHERE

GRINDING WORK

CONCRETE CHIPPING

STEAM LEAKS

ETC.

SAFE LIMITS - NOISE

BASIC LIMIT

- 90 DBA (8-HR TWA)**
- 87 DBA (12-HR TWA)**

**THE HIGHER THE NOISE, THE
LESS TIME IS REQUIRED TO
CAUSE HARM**

PREVENT HEARING LOSS

BE ALERT FOR HIGH NOISE

- SIGNS**
- DIFFICULT CONVERSATION**

USE HEARING PROTECTION

- EARPLUGS**
- EAR MUFFS**

AUDIOGRAMS

- PARTICIPATE IN TESTING PROGRAM!**

ASBESTOS PROPERTIES & USE

A NATURAL FIBER

- THIN
- FRAGILE
- HARD TO DISTINGUISH
BETWEEN ASBESTOS AND
SOME MAN-MADE FIBERS

USED FOR INSULATION

IN LIMITED USE IN PLANT

ASBESTOS HEALTH HAZARDS

"ASBESTOSIS"

**OTHERS, INCLUDING CANCERS
OF THE DIGESTIVE SYSTEM**

ASBESTOS HEALTH GOAL

**ZERO INHALATION
OF ASBESTOS DUSTS**

SAFE LIMITS - ASBESTOS

8-HOUR TWA

0.2 FIBER

EXCURSION LIMIT

1 FIBER IN 15-MINUTES

ASBESTOS WORK SITES

CAUTION SIGNS

SAFETY FLAGGING

RESTRICTED AREA

PROTECTIVE EQUIPMENT

- TYVEK COVERALLS
- RUBBER GLOVES
- 3M AIRHATS

SPECIAL EQUIPMENT

- PLASTIC BAGS
- OPEN TOP DRUMS
- PLASTIC SHEET